STEREO DOUBLE CASSETTE DECK

KX-W6050

SERVICE MANUAL

KENWOOD

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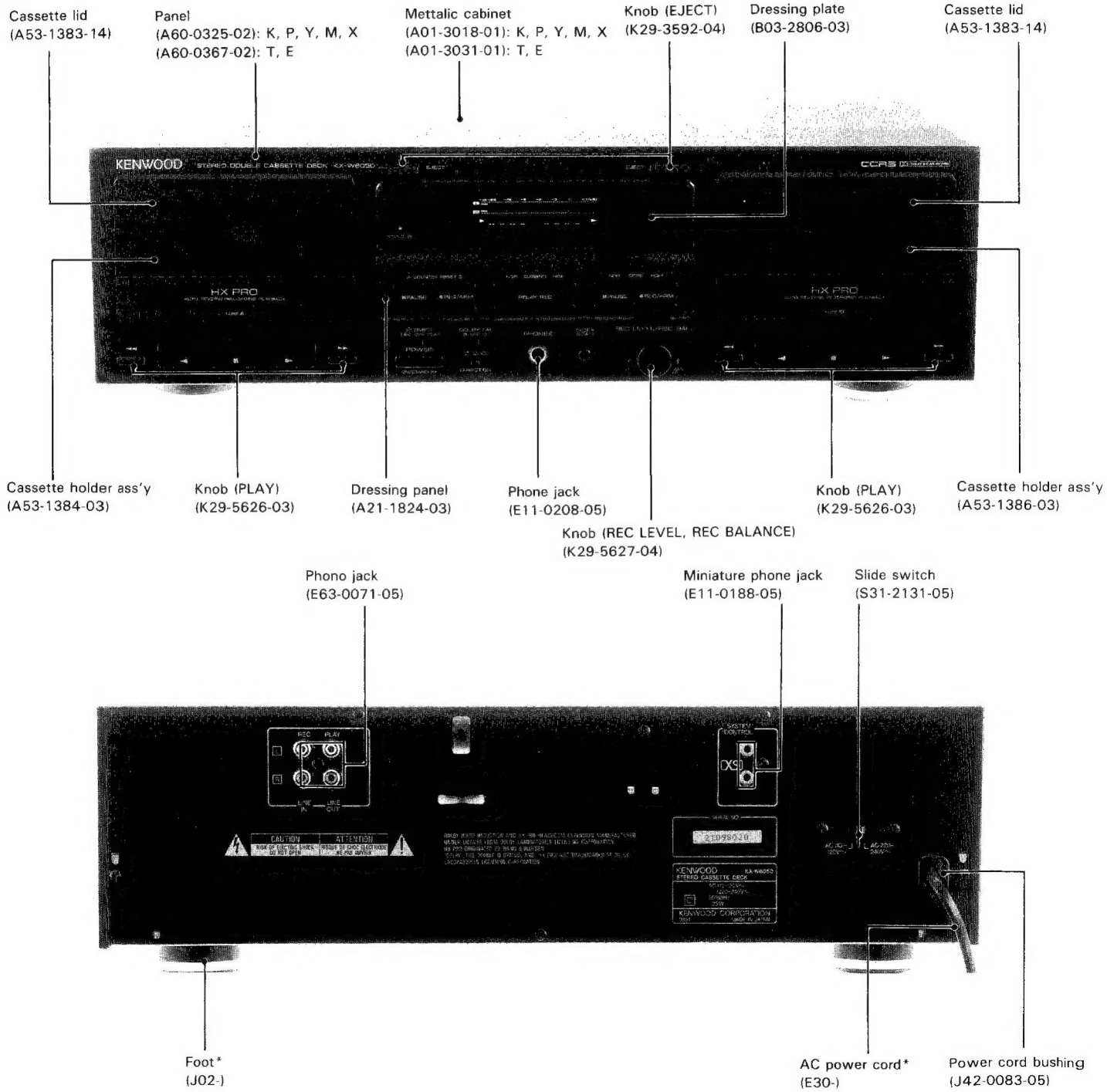
B51-4679-00(S) 4229



* Refer to part list on page 38.

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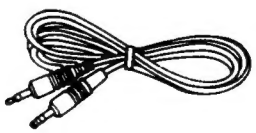
CONTENTS

Accessories

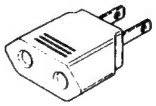
Audio cord 2
(E30-0505-05)

System control cord 1
(Except for U.K. and Europe)
(E30-2733-05)



AC cord 1
(Except for some areas.)
(The shape may vary depending on the destination area.)

AC plug adaptor 1
(Except for some areas)
(E03-0115-05)



INSTRUCTION MANUAL

B60-1062-00	ENGLISH	
B60-1063-00	FRENCH	P,E
B60-1064-00	CHINESE	M
B60-1065-00	SPANISH	M, E
B60-1066-00	GERMANY, DUTCH, ITALY	E

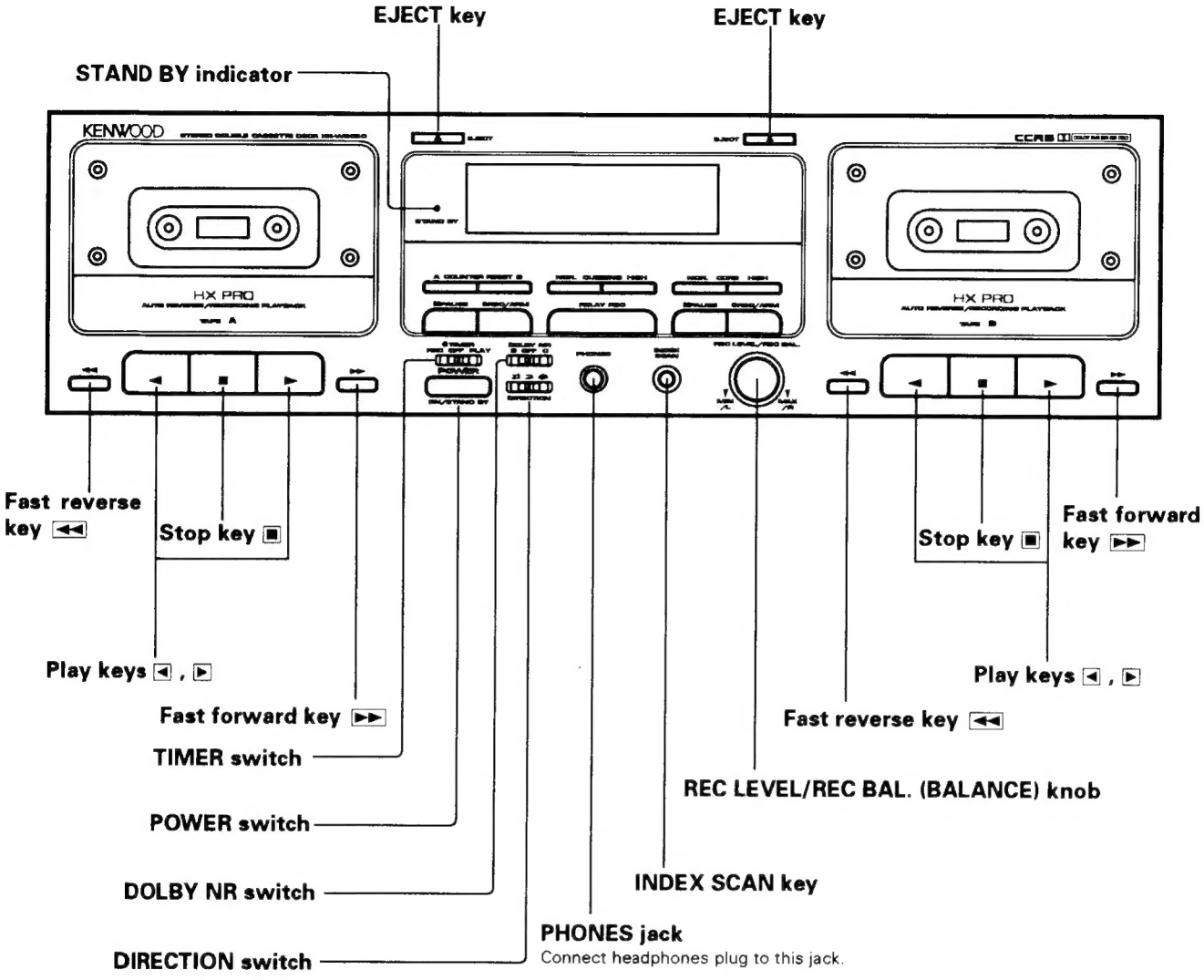
ITEM CARTON CASE

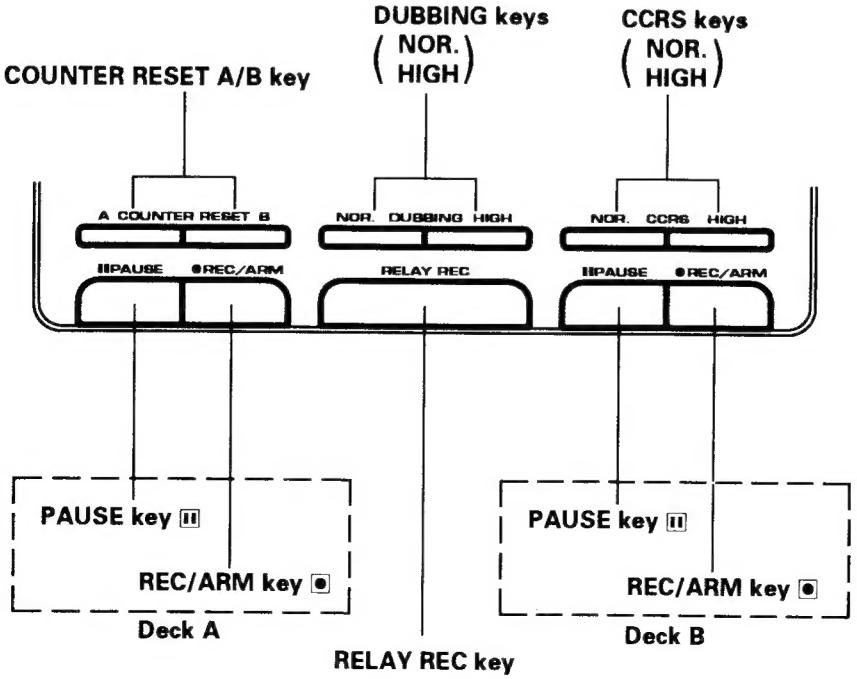
H50-0512-04	K, P, Y, M, X, E
H50-0563-04	T

POLYSTYRENE FOAMED FIXTURE

H10-5101-12	L	K, P, Y, M, X, E
H10-5102-12	R	K, P, Y, M, X, E
H10-5420-02	L	T
H10-5421-02	R	T

CONTROL AND OPERATION





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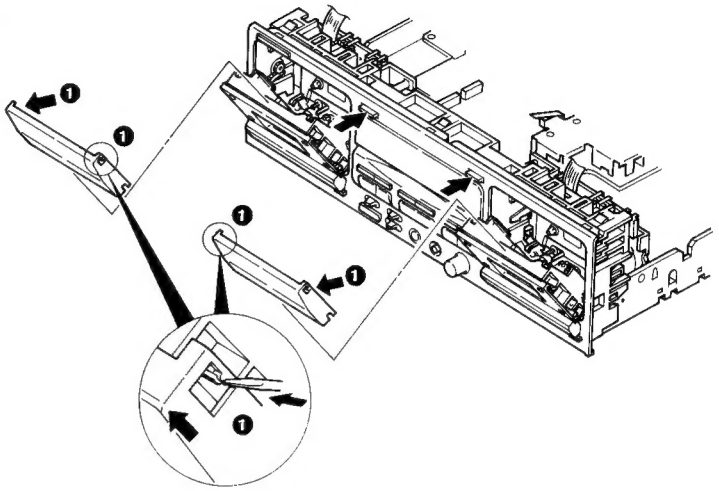
DISASSEMBLY FOR REPAIR

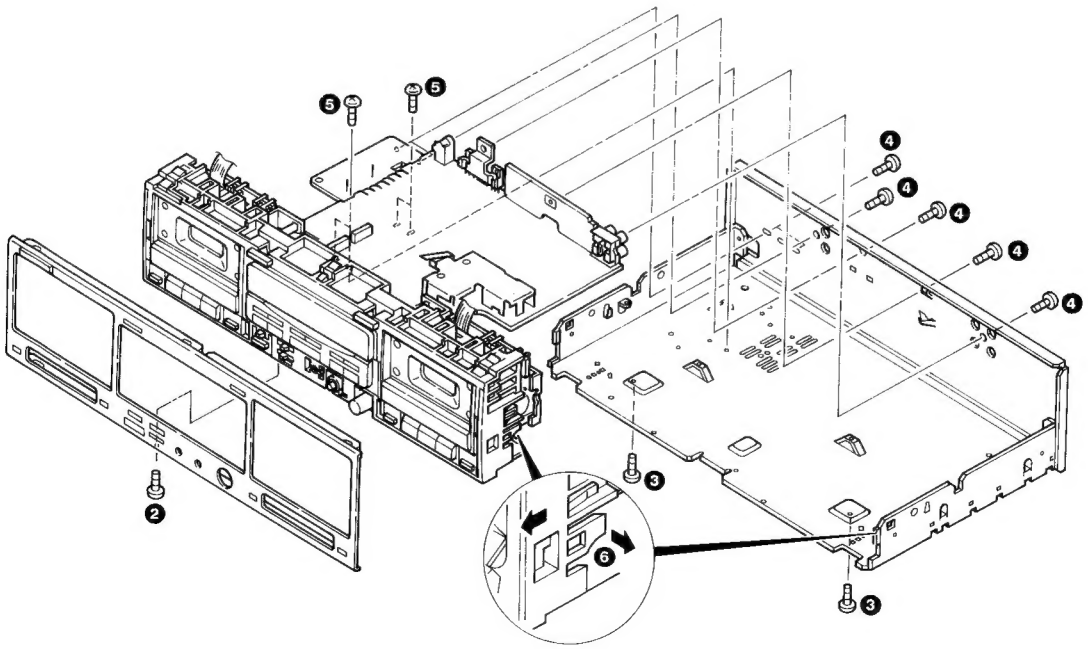
•Take out the case beforehand.

1. Push the Eject button, and when the cassette holder have opened, push the two hooks ❶ of the right- and left-hand sides with a square-bar standard sorewdriver and the like from the outer side, and remove the lid.



2. Remove the screw ❷ of the lower part, undo the 5 claws, and remove the front panel.

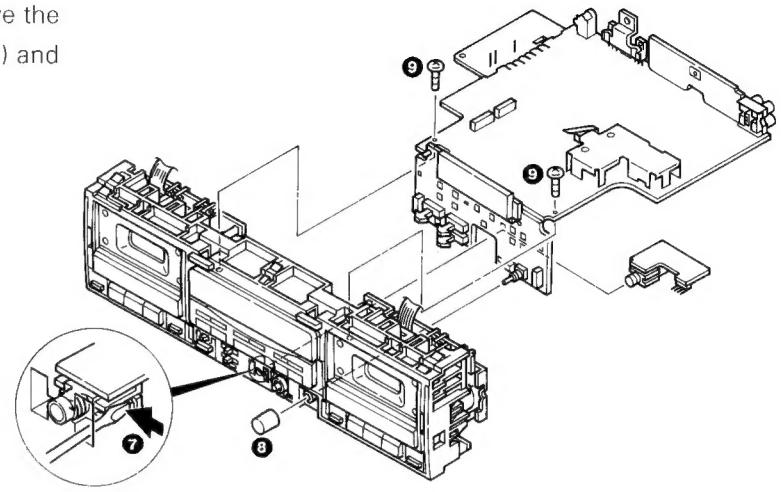
3. Remove the 2 screws ❸ of the lower part, remove the 6 screws ❹ of the rear side and remove the 4 screws ❺ of the transformer, undo the 2 claws ❻, and remove the sub-panel ass'y to the front side.



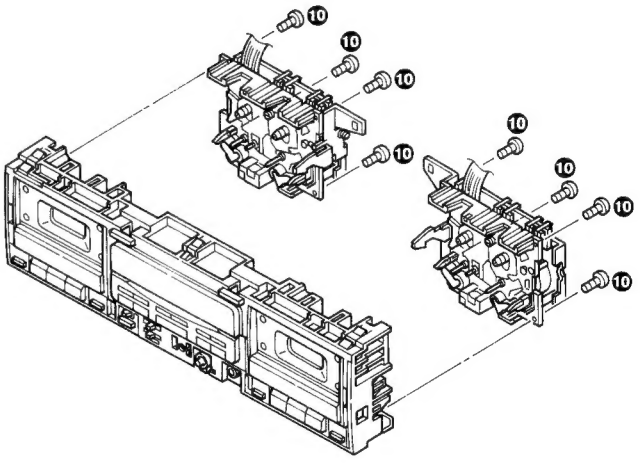
DISASSEMBLY FOR REPAIR

4. To remove the X28 (F/7) headphone jack, push the 2 claws ❼ with a square-bar standard screwdriver and the like, and undo them.

5. Remove the knob ❽, undo the 6 claws, remove the 2 screws ❾, and then remove X28-(A/7), (B/7) and (C/7) (G/7).



6. The mechanism ass'y comes off when the 8 screws ❿ are removed.



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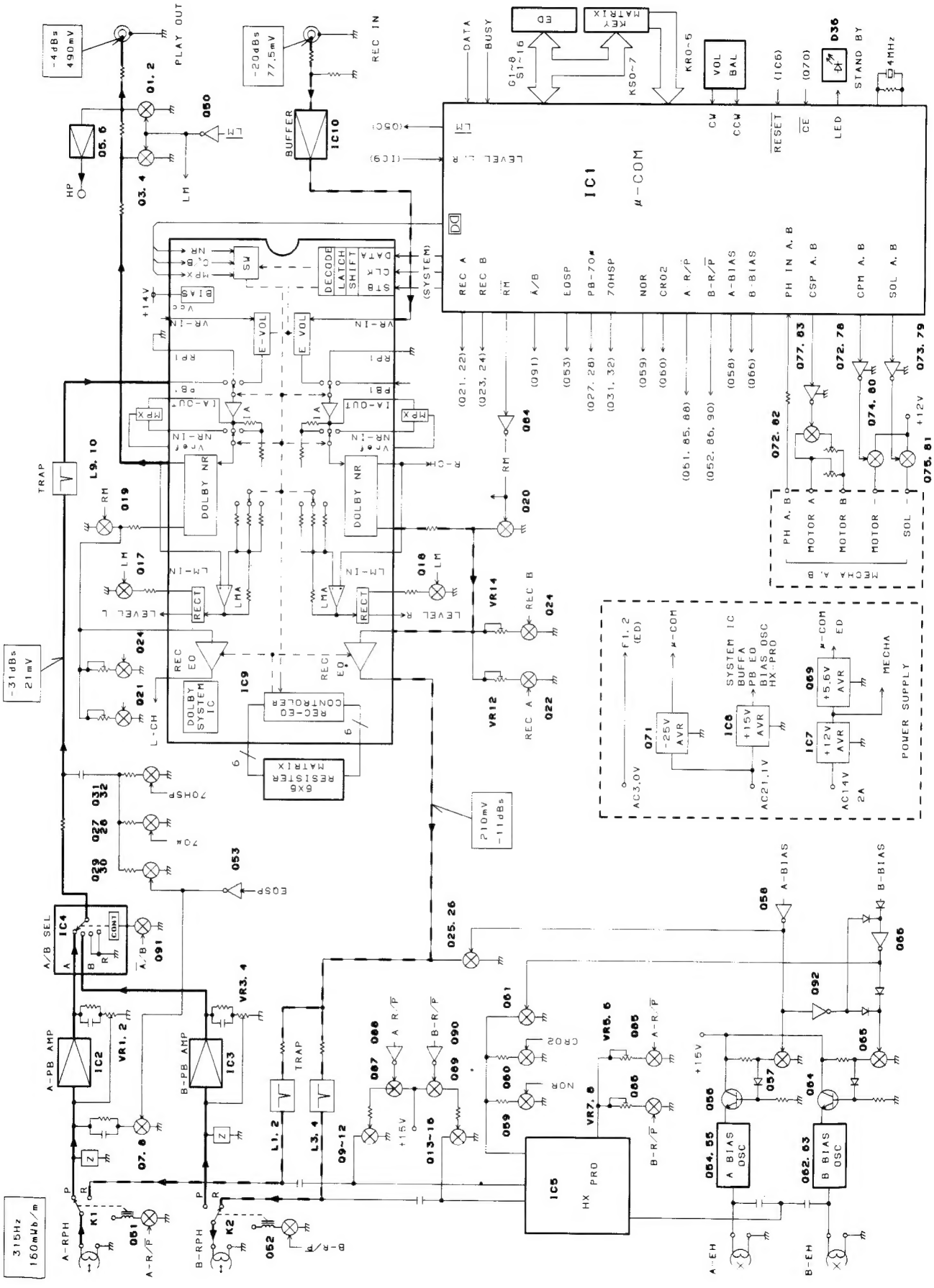
BLOCK DIAGRAM



CIRCUIT DESCRIPTION

Record playback amplifier unit (X28-249X-XX)

Ref. No	Parts Name	Use/Function	Operation/Condition
IC1	CXP82324-126Q	MICRO PROCESSOR	
IC2,3	TA8125S	P-B AMP	
IC4	XRU4052B	P-B A/B SW	
IC5	μPC1297CA	DOLBY-HXPRO IC	
IC6	PST529D	RESET IC	
IC7	XRA17812T	+12V AVR	
IC8	XRA17815T	+15V AVR	
IC9	HA1215NTA	SYSTEM IC	
IC10	NJM4565D-D or XRA15218-DX	INPUT BUFFER	
Q1~4	2SD1302 (S, T)	PLAY OUT MUTING	CONTROLED BY Q50 ON-MUTE
Q5, 6	2SC1845 (F, E)	HEADPHONE AMP	
Q7, 8	DTC124ES or UN4212	HIGH-SPEED EQ SW	ON-NOMAL SPEED
Q9~12	2SC1845 (F, E)	HX BIAS SW (A)	CONTROLED BY Q87 ON- A REC
Q13~16	2SC1845 (F, E)	HX BIAS SW (B)	CONTROLED BY Q88 ON- B REC
Q17, 18	2SC1740 (Q, R) or 2SC3311A (Q, R)	LEVEL AMP SW	CONTROLED BY Q50 ON-MUTE
Q19, 20	2SD1302 (S, T)	REC MUTE	CONTROLED BY Q84 ON- PLAY
Q21, 22	DTC124ES or UN4212	REC A SW	A REC- ON
Q23, 24	DTC124ES OR UN4212	REC B SW	B REC- ON
Q25, 26	2SC1740S (Q, R), 2SC3311A (Q, R)	REC MITE	A REC- OFF
Q27, 28	DTC1214ES or UN4212	PB EQ 70μ SW	70μ PB- ON
Q29, 30	DTC124ES or UN4212	120 μ HIGH SPEED	A- 120 μ HIGH SPEED DUB. ON
Q31, 32	DTC124ES or UN4212	70 μ HIGH SPEED	A- 70 μ HIGH SPEED DUB. ON
Q50	DTA124ES or UN4112	PB OUT MUTE DRIVER	CONTROLED BY IC1-76 PIN
Q51	DTC124ES or UN4212	A HEAD R/P CONTROLE	CONTROLED BY IC1- 40 PIN, A REC- ON
Q52	DTC124ES or UN4212	B HEAD R/P CONTROLE	CONTROLED BY IC1- 44 PIN, B REC- ON
Q53	DTC124ES or UN4212	EQ SP- SW	HIGH SPEED DUB- ON
Q54, 55	2SC1740S (Q, R) or 2SC3311A (Q, R)	A-BIAS OSC	
Q56	2SC3940A (R, S)	A-BIAS CONTROLE	CONTROLED BY Q57
Q57	DTC143TS or UN4216	A-BIAS ON-OFF SW	CONTROLED BY Q58

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CIRCUIT DESCRIPTION

Ref. No	Parts Name	Use/Function	Operation/Condition
Q58	DTA124ES or UN4212	A-BIAS CONTROLE	CONTROLED BY IC1- 41 PIN
Q59	DTC124ES or UN4212	B-BIAS CONTROLE	CONTROLED BY IC1- 43 PIN
Q60	DTC124ES or UN4212	B-BIAS CONTROLE	CONTROLED BY IC1- 42 PIN
Q61	2SD1302 (S, T)	B-BIAS ON-OFF SW	CONTRTOLED BY Q65 B REC- OFF
Q62, 63	2SC2003 (L, K)	B-BIAS OSC	
Q64	2SC3940A (R, S)	B-BIAS CONTROLE	CONTROLED BY Q65
Q65	UN4212	B-BIAS CONTROLE	B REC- OFF
Q66	UN4212 or DTC124ES	B-BIAS CONTROLE	B REC- ON
Q67	2SC1740S (Q, R) or 2SC3311A (Q, R)	GRID DRIVER	CONTROLED BY IC1- 19 PIN
Q68	2SC1740S (Q, R) or 2SC3311A (Q, R)	GRID DRIVER	CONTROLED BY IC1- 20 PIN
Q69	2SC3940A (Q, R)	+5.6 V AVR	
Q70	2SC1740S (Q, R) or 2SC3311A (Q, R)	RESET	CONTROLED BY IC6
Q71	2SA1123 (R, S)	−23 V AVR	
Q72, 78	DTC124ES or UN4212	A OR B CPM SW	
Q73, 79	DTC124ES or UN4212	A OR B SOL SW	
Q74, 80	2SA1534A (R, S)	A OR B CPM SW	
Q75, 81	2SA1534A (R, S)	A OR B SOL SW	
Q76, 82	2SA1309A (Q, R) or 2SA933S (Q, R)	A OR B CSP SW	
Q77, 83	DTC124ES	A OR B CSP SW	
Q84	DTA124ES or UN4112	REC MUTING DRIVER	CONTROLED BY IC1- 77 PIN
Q85	DTC124ES or UN4212	A BIAS SELECT	A REC- ON
Q86	DTC124ES or UN4212	B BIAS SELECT	B REC- ON
Q87	2SA992 (F, E)	A BIAS CONTROLE	CONTROLED BY Q88
Q88	DTC124ES or UN4212	A BIAS CONTROLE	CONTROLED BY IC1- 40 PIN
Q89	2SA992 (F, E)	B BIAS CONTROLE	CONTROLED BY Q90
Q90	DTC124ES or UN4212	B BIAS CONTROLE	CONTROLED BY IC1- 44 PIN
Q91	DTC124ES or UN4212	PB A/B SW	CONTROLED BY IC1- 37 PIN
Q92	DCTC143TS or UN4216	A BIAS CONTROLE	CONTROLED BY Q58

CIRCUIT DESCRIPTION

Description of Functions

Feature

(a) Recording system

· Relay recording, W reverse

If decks A and B are loaded with a cassette, the direction mode is ⇄ or ⊃, one deck is recording and the other is in the REC PAUSE mode, and the recording sources match, then, when the end of the tape on the deck recording is reached, recording continues automatically on the other deck.

Conditions:

1 Decks A and B are both loaded with a cassette that can be recorded on in the appropriate current tape direction.
2 The reverse mode switch is set to ⇄ or ⊃.
3 The recording source is the same for both decks.
4 Neither deck is in ARM. One deck records and the other is stopped.

Operation:

1 ⇄ **mode (A to B only)**
When the end of the tape of one side is reached on the deck recording, the deck stops, and the other deck starts recording automatically.

2 ⊃ **mode (A to B only)**
When the end of the tape of the reverse side is reached on the deck recording, the deck stops, and the other deck starts recording automatically.

(b) Relay play

If decks A and B are both loaded with a cassette, and the direction mode is ⇄ or ⊃, then when the end of the tape is reached on the deck playing, the other deck starts playing automatically.

Conditions:

1 Decks A and B are both loaded with a cassette.
2 The reverse mode switch is set to or .
3 One deck plays normally, not with DPSS, and the other is stopped.

Operation

1 ⇄ **mode**
When the end of the tape is reached on the deck playing, the deck rewinds if it is playing in the forward direction, and fast forwards if it is playing in the reverse direction, and the other deck starts playing automatically in the current tape direction.

2 ⊃ **mode**
When the end of the tape of the reverse side is reached on the deck playing, the deck stops, and the other deck starts playing in the forward direction.

(c) DPSS

SKIP selection, single-tune repeat, autorecord mute, and RE-REC standby operations are performed by pressing the appropriate keys.

(d) Timer operation

Timer recording and playback are possible by setting the timer switch. When the timer switch has been set to PLAY or REC and the power is switched on, the desired operation takes places after an initial delay (about four seconds). With timer recording, "TUNER PLAY" 28H (serial code) is output about 1.5 seconds after the power comes on, and the amplifier input selector is set to TUNER.

(e) Dubbing

Normal and high-speed dubbing from deck A to deck B are possible with the NORMAL DUBBING and HIGH-DUBBING keys.

(f) CCRS

Synchronized recording is done by automatically optimizing the deck recording level to suit the CD maximum output level.

Procedure

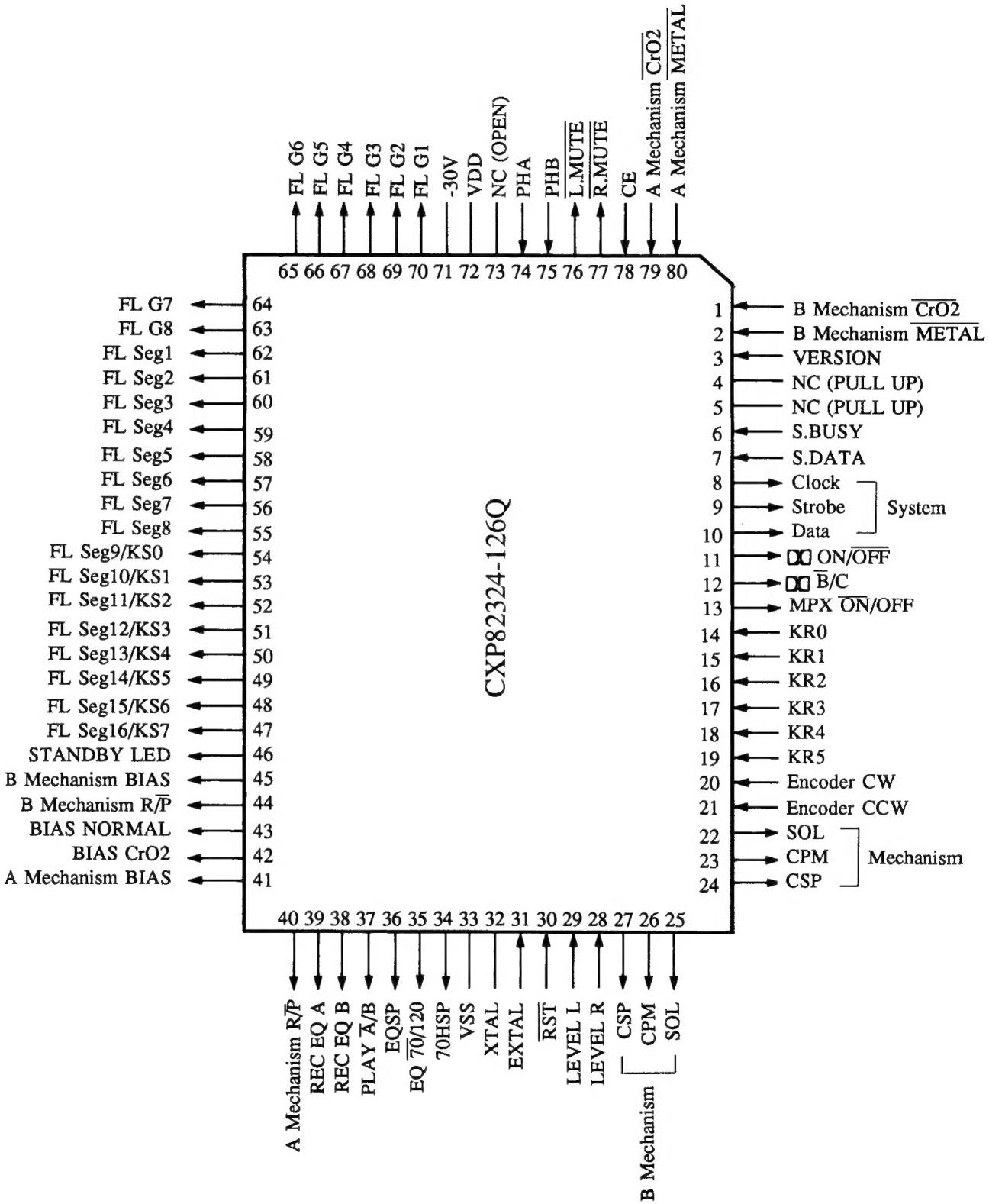
1 Load a disc in the CD player and a recordable tape in the deck.
2 Set the amplifier input selector to CD, and set TAPE2 MONITOR to OFF. (For models with a REC OUT selector, set REC OUT to CD.)
3 Set CD TRACK/PGM and EDIT1/2 as required.
4 If you want to do relay recording, press the RELAY REC key.
5 Press the CCRS/HI-CCRS key.

(g) Serial communication function

Various serial operations are possible when the deck is combined with a system having a serial communication bus.

CIRCUIT DESCRIPTION

Pin Connection



CIRCUIT DESCRIPTION

Pin Description

Pin No.	I/O	Name	Description	
1	I	B Mechanism $\overline{\text{CrO2}}$	B-mechanism CrO2 tape detection	H: NORMAL
2	I	B Mechanism $\overline{\text{METAL}}$	B-mechanism metal tape detection	L: METAL
3	I	VERSION	Destination changeover	H: 6050, L: 4050, W893
4			Unused (PULL UP)	
5			Unused (PULL UP)	
6	I/O	S. BUSY	Serial BUSY input/output	
7	I/O	S. DATA	Serial data input/output	
8	O	CLK	System IC clock output	
9	O	STB	System IC strobe signal input	
10	O	DATA	System IC serial data output	
11	O	DD ON/$\overline{\text{OFF}}$	Dolby ON/OFF control	H: ON
12	O	DD $\overline{\text{B/C}}$	Dolby B/C switching	H: C
13	O	MPX $\overline{\text{ON}}$/OFF	MPX filter switching	L: ON
14 ~ 19	I	KR0 ~ KR5	Key return signal input	H: RETURN
20	I	Encoder CW	Encoder clock signal input	H: RETURN
21	I	Encoder CCW	Encoder clock signal input	H: RETURN
22	O	SOLA	A-solenoid control	H: ON
23	O	CPMA	A-capstan motor control	H: ON
24	O	CSPA	A-capstan motor switching	H: NORMAL L: HIGH SPEED
25	O	SOLB	B-solenoid control	H: ON
26	O	CPMB	B-capstan motor control	H: ON
27	O	CSPB	B-capstan motor switching	H: NORMAL L: HIGH SPEED
28	I	LEVEL R	CCRS, DPSS Rch signal input	
29	I	LEVEL L	CCRS, DPSS Lch signal input	
30		$\overline{\text{RESET}}$	Reset signal input	L: RESET
31 ~ 32	I	EXTAL, XTAL	Clock oscillator connection terminal (10 MHz)	
33		Vss	GND	

CIRCUIT DESCRIPTION

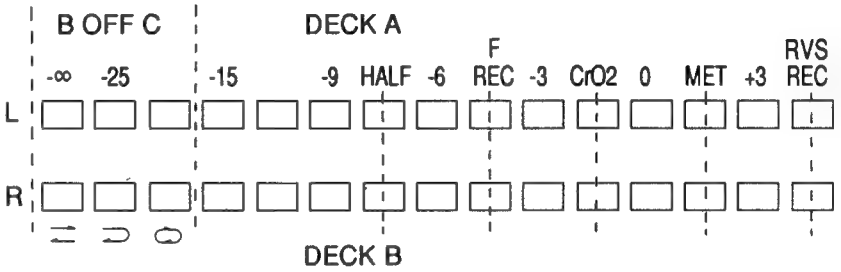
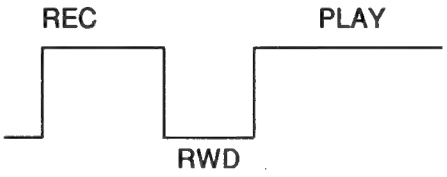
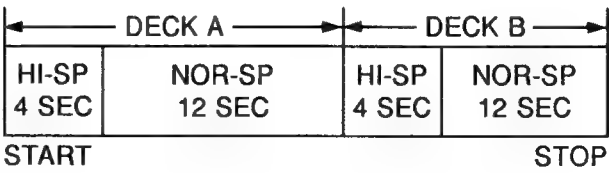
Pin No.	I/O	Name	Description	
34	O	70HSP	EQ SP HIGH & BIAS 70 μs	H: ON
35	O	120/$\overline{70}$	Bias switching	H: 120 μs
36	O	EQ SPEED	PLAY EQ SPEED switching	H: NORMAL
37	O	PLAY $\overline{A}$/B	A/B head switching	H: B head ON
38	O	REC EQ B	REC equalizer A/B switching	
39	O	REC EQ A	REC equalizer A/B switching	
40	O	A Mechanism R/P	A REC/PLAY swtiching	H: REC
41	O	A Mechanism BIAS	A bias ON/OFF control	H: ON
42	O	BIAS CrO2	PLAY BIAS SWITCHING	H: CrO2
43	O	BIAS NOR	PLAY BIAS SWITCHING	H: CrO2
44	O	B Mechanism R/$\overline{P}$	B REC/PLAY switching	H: REC
45	O	B Mechanism BIAS	B bias ON/OFF control	H: ON
46	O	STBY LED	Standby LED ON	H: ON
47 ~ 54	O	KS7 ~ KS0 & Seg 16 ~ 9	Key scan signal output & FL tube segment signal output	H: SCAN H: ON
55 ~ 62	O	Seg 8 ~ 1	FL tube segment signal output	H: ON
63 ~ 70	O	Grid8 ~ 1	FL tube grid signal output	H: ON
71		VFDP	FL tube driving voltage (− 30 V)	H: ON
72		VDD	Positive power supply terminal (+ 5V)	
73			Unused (OPEN)	
74	I	PHA	A-mechanism rotation detection input	
75	I	PHB	B-mechanism rotation detection input	
76	O	$\overline{\text{L MUTE}}$	Line mute control	L: ON
77	O	$\overline{\text{R MUTE}}$	Rec mute control	L: ON
78	I	$\overline{\text{CE}}$	Backup detection terminal	L: BACK UP
79	I	A Mechanism $\overline{\text{CrO2}}$	A-mechanism CrO2 tape detection	H: NORMAL
80	I	A Mechanism $\overline{\text{METAL}}$	A-mechanism metal tape detection	L: METAL

CIRCUIT DESCRIPTION

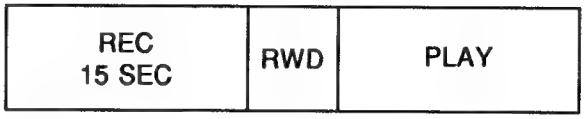
Test Mode

The system enters this test mode when KS4 (TP4) and KR5 (TP3) are shorted together with a diode and the AC power plug connect to the AC cutlet.

Cancel method : Press the REC pause key or disconnect the AC power plug from the AC outlet.

Mode No	Timer switch position	Key	Operation
1	-	-	ALL ON-DISPLAY All the indicators light for about 1.5 sec. Keys are enabled after the indicators go out.
2	-	-	MECHANICAL SWITCH DISPLAY The state of each mechanical switch is shown on the level meter. 
3	OFF	REC	4 SECOONDS RECORDING Record for 4 seconds, retums to the begining, and play back (can be repeated). 
4	PLAY	POWER	AUTOMATIC TIMER PLAY Set timer play when the power is switched on. 

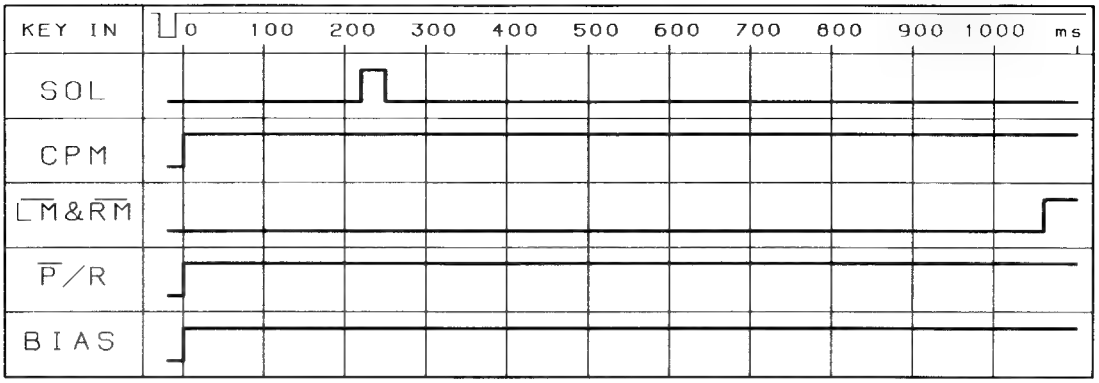
CIRCUIT DESCRIPTION

Mode No	Timer switch position	Key	Operation
5	REC	POWER	AUTOMATIC TIMER RECORDING Set timer recording when the power is switched on. (Deck B only)  START
6	OFF	★	PLAY BACK SPEED SWITCHING FWD Key : Normai speed P.B (FWD) FF Key : Hi-speed P.B (FWD) RVS Key : Normai speed P.B (RVS) RWD Key : Rewind
7	OFF	H.DUBB N.DUBB	DUBBING MODE The dubbing mode is entered pressing. Then dubbing key for both high and normal. If the dubbing key is pressed after that, only the speed and circuit system changed.

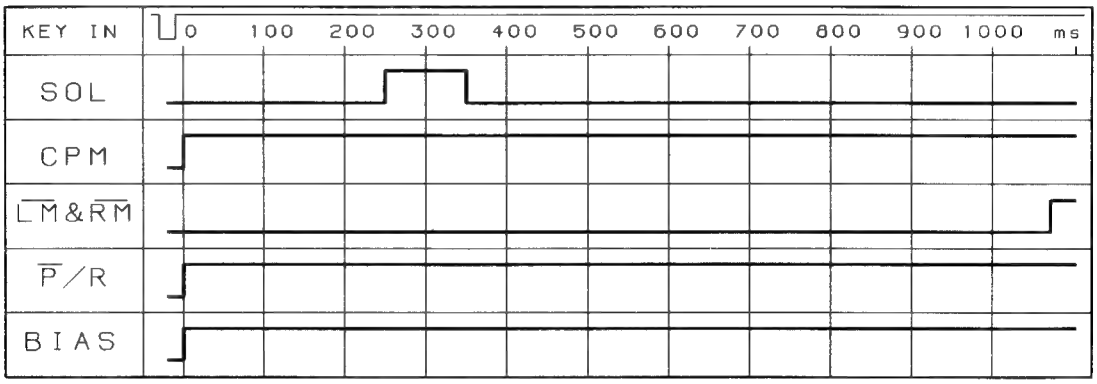
CIRCUIT DESCRIPTION

TIMING CHART

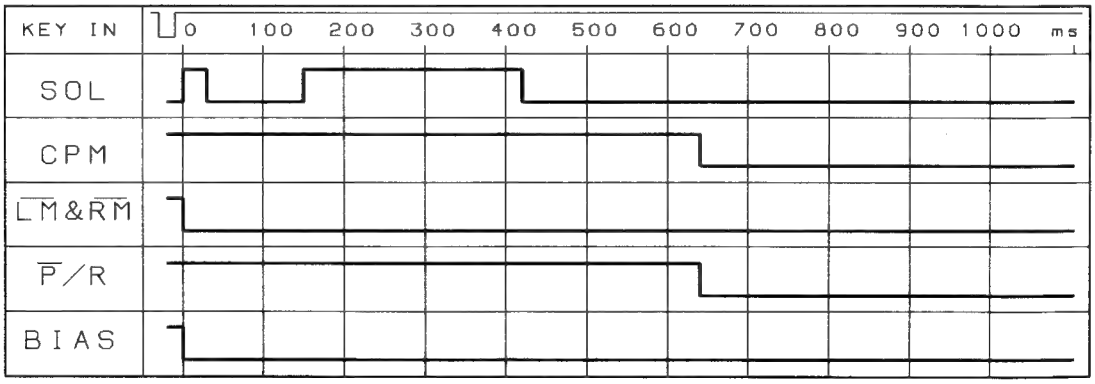
STOP to FWD REC



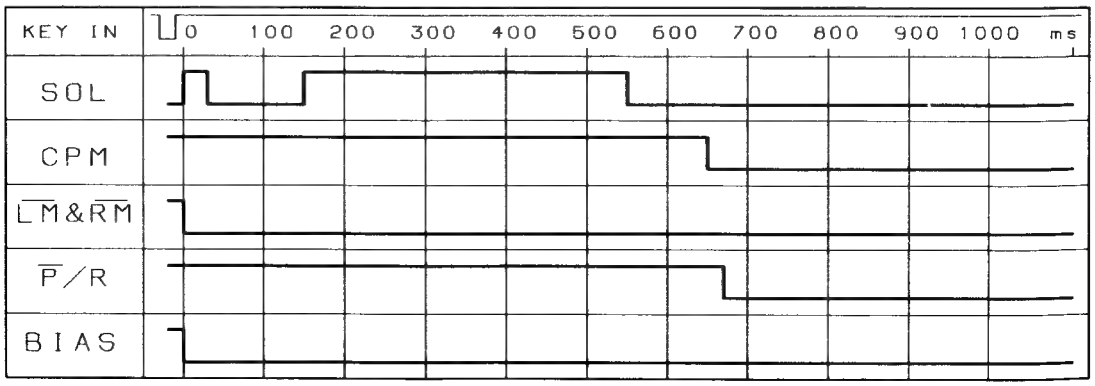
STOP to RVS REC



FWD REC to STOP

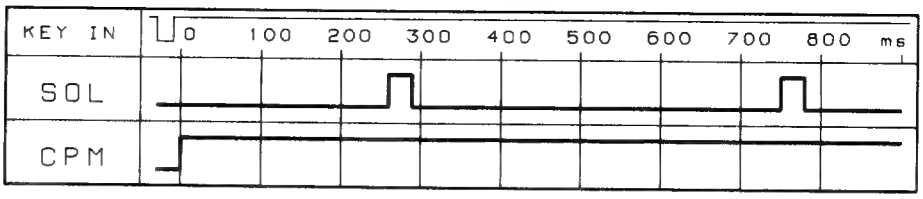


RVS REC to STOP

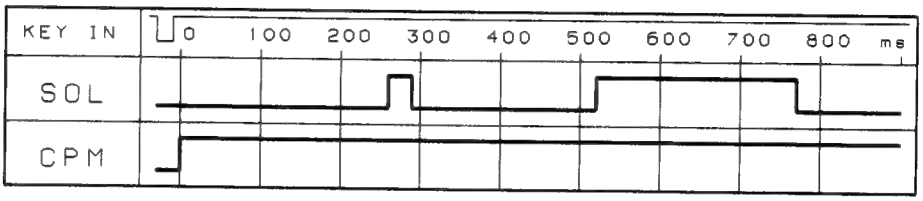


CIRCUIT DESCRIPTION

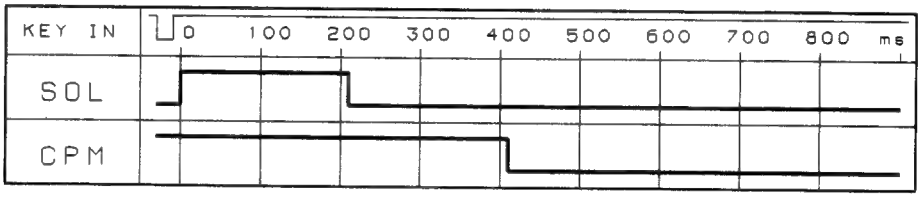
STOP to FF



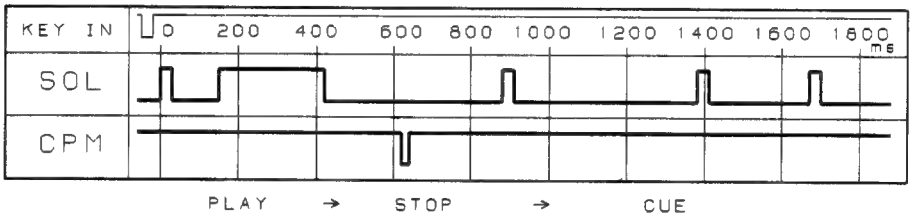
STOP to RWD



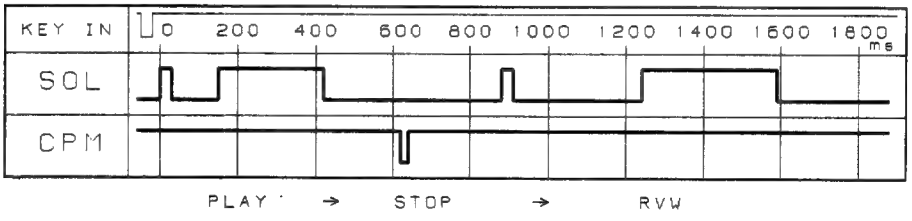
FF/RWD to STOP



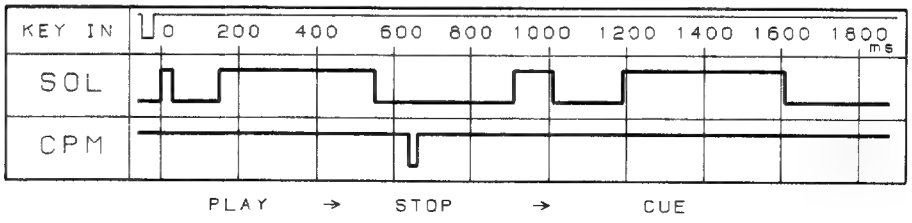
FWD PLAY to CUE



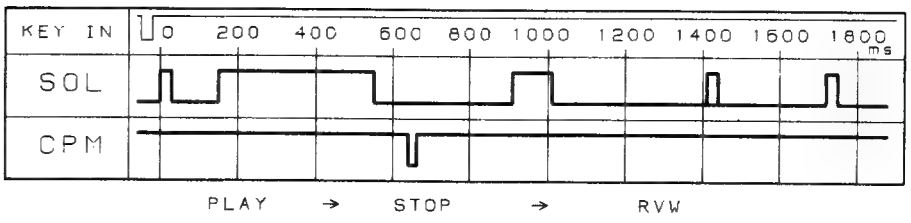
FWD PLAY to RVW



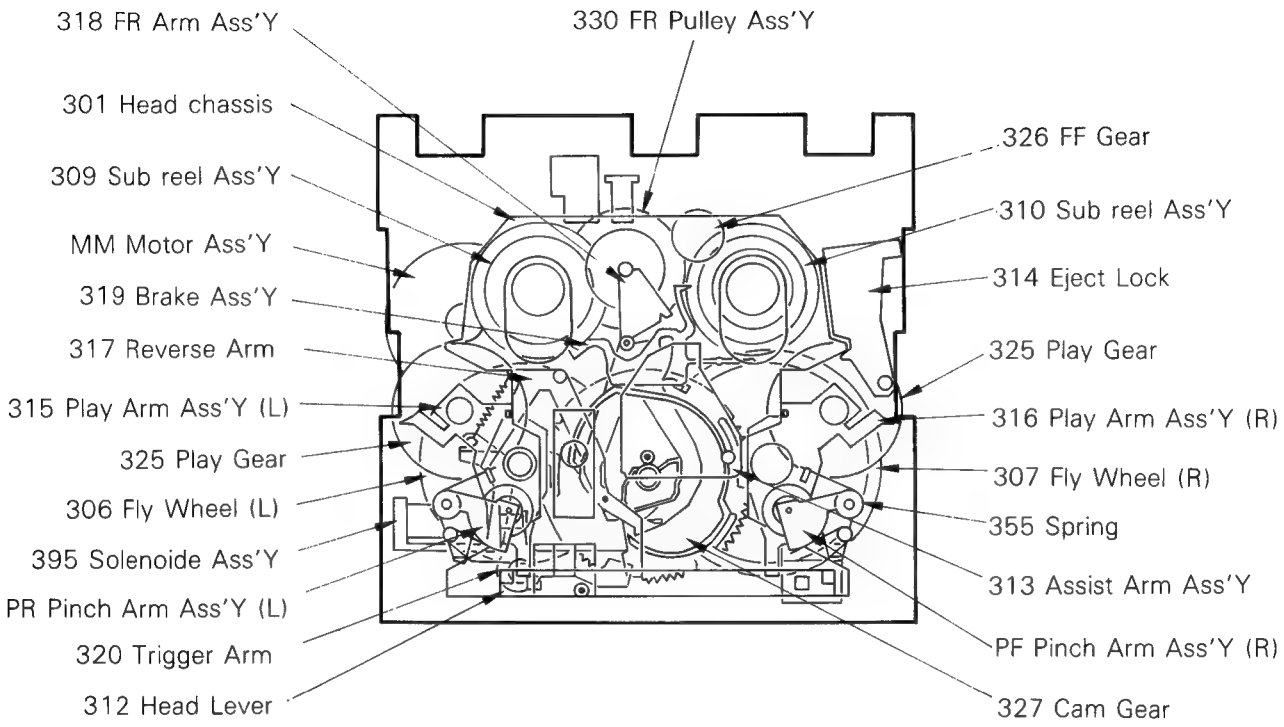
RVS PLAY to CUE



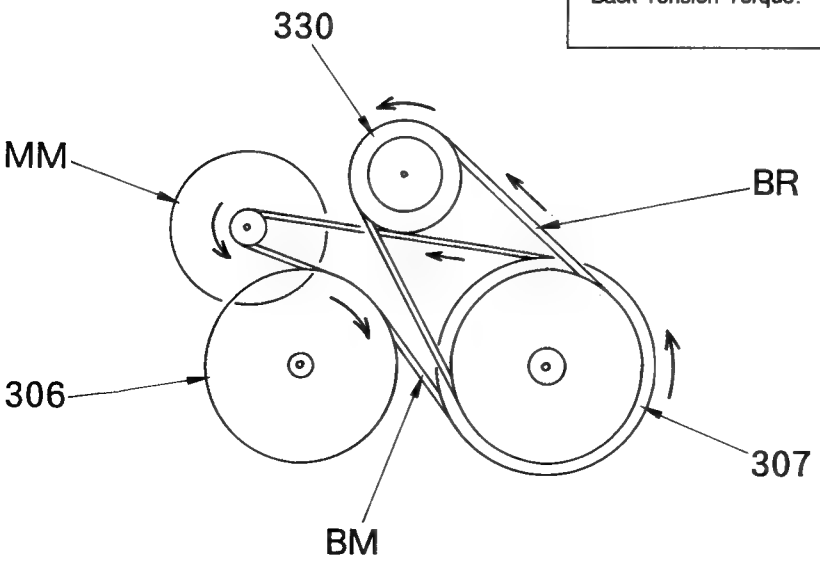
RVS PLAY to RVW



MECHANISM DESCRIPTION



Take-up Torque:	35~70 g • cm
FF. REW Torque:	80~170 g • cm
Back Tension Torque:	2~6 g • cm

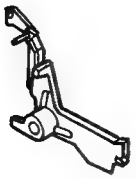


KX-W6050

MECHANISM DESCRIPTION

FR Pulley Ass'y

Cam gear

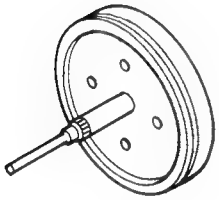


Trigger arm

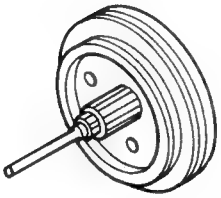
Reverse arm

FR arm Ass'y

Brake arm



Fly Wheel (L)



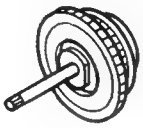
Fly Wheel (R)

Reel cap

Eject lock

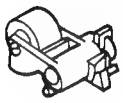
FF gear

Subreel Ass'y (R)



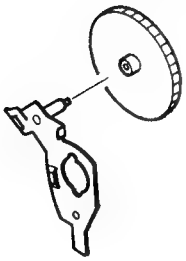
Subreel Ass'y (L)

Pinch arm Ass'y (L)



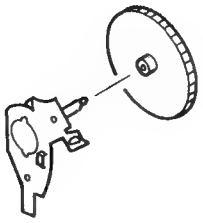
Pinch arm Ass'y (R)

Play gear



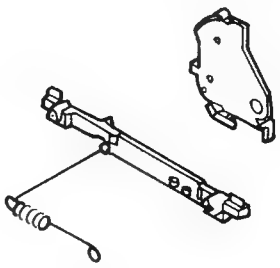
Play arm Ass'y (L)

Play gear

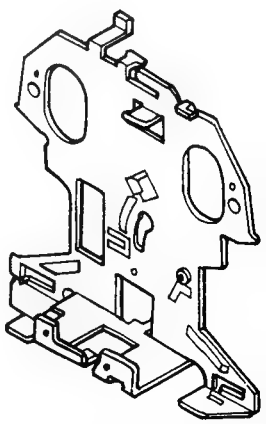


Play arm Ass'y (R)

Assist arm Ass'y



Head lever



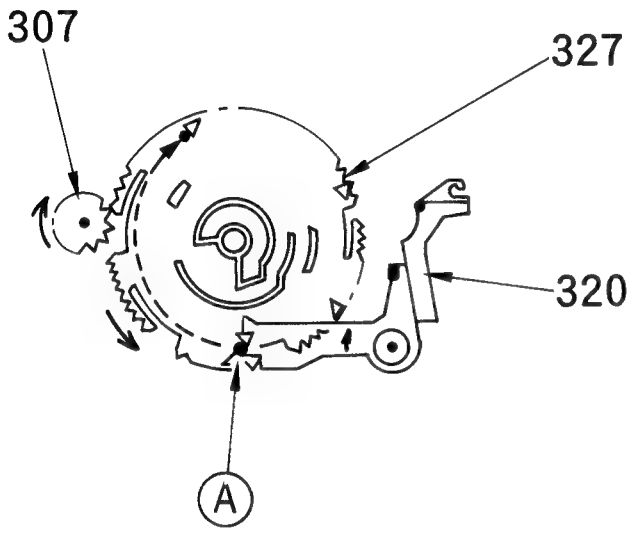
Head chassis

MECHANISM DESCRIPTION

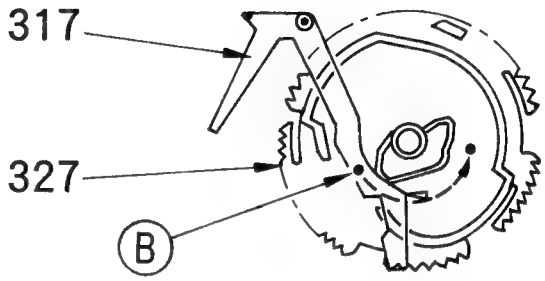
FWD PLAY/REC

① The plunger turns ON for 30 ms, and turns OFF immediately.

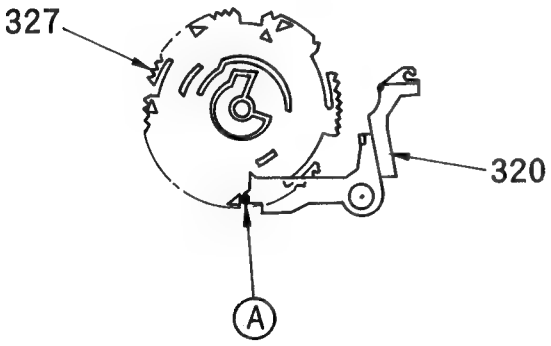
② The boss Ⓐ on the trigger arm comes off the stopper, and the cam gear begins to rotate.



③ The boss Ⓑ on the rear arm passes through the inner side of on the cam gear.

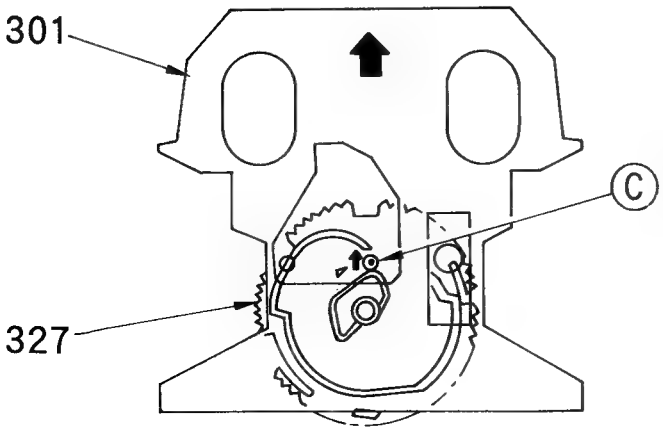


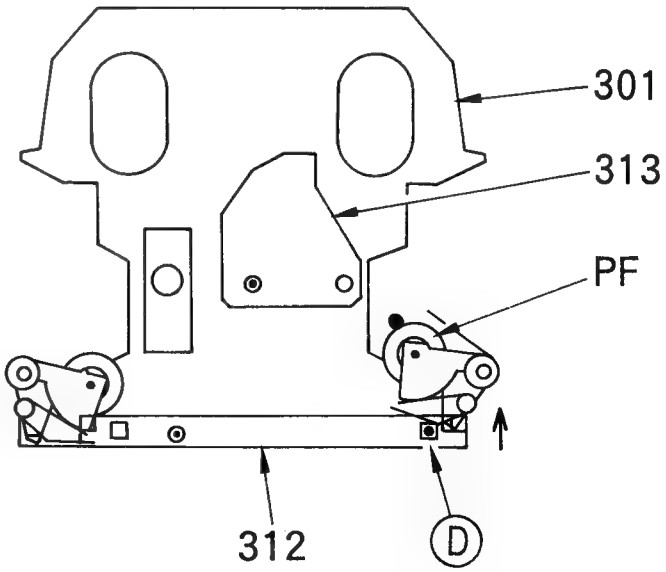
④ The cam of the cam gear pushes the boss Ⓒ on the assist arm ASS'Y up, and the rotation of the cam gear is stopped by the boss Ⓐ on the trigger arm and gets at the FWD PLAY/REC position.



⑤ Since the assist arm ASS'Y is fixed on the head chassis, the head chassis also rises up to the FWD PLAY/REC position.

⑥ The pinch roller (R) at the FWD side is also pushed up by the boss Ⓓ of the head lever on the head chassis, and touches the capstan.

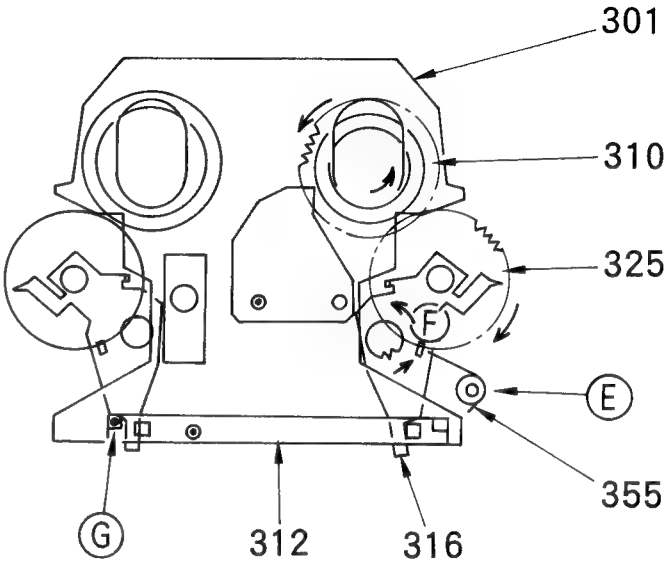




MECHANISM DESCRIPTION

⑦ Since the play arm ASS'Y (R) becomes free as a result of the rise of the head chassis, it is rotated in the arrow direction Ⓔ by the spring Ⓔ, and the play gear is engaged with the gear of the sub-reel ASS'Y (R), thereby transmitting the rotation of the flywheel R to the reel (R).

The play arm ASS'Y of the L-side also becomes free from the head chassis, but it does not rotate because it is in contact with the boss Ⓖ of the head lever.



RVS PLAY/REC

① The plunger turns ON for 100 ms.

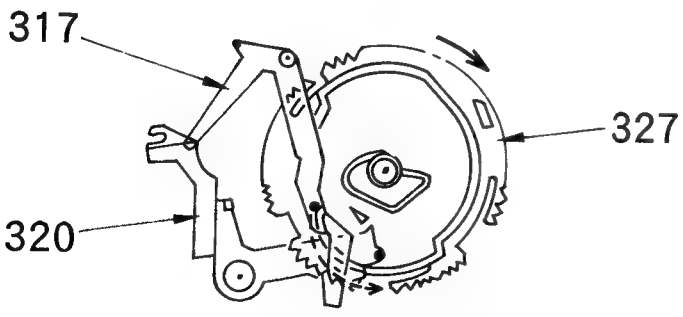
② The boss on the trigger arm comes off, and the cam gear begins to rotate.

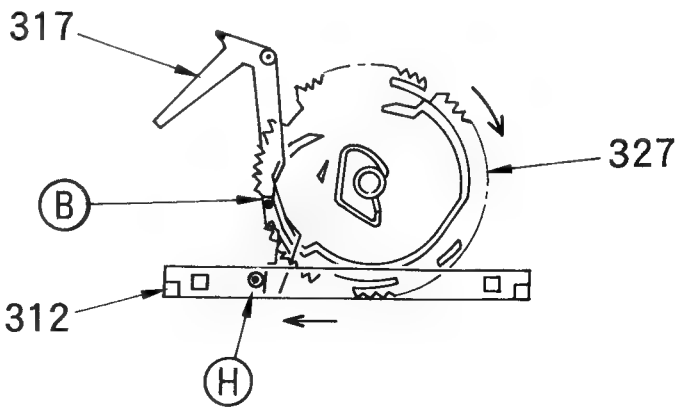
Since the trigger arm is pulled by the plunger for 100 ms, the boss Ⓑ on the roverse arm passes through the outer side of the cam on the cam gear.

③ Since the reverse arm also moves concurrently with the rotation of the cam gear and pushes the boss Ⓗ on the head bar, the head rotates.

(Schematics of the head rotation)

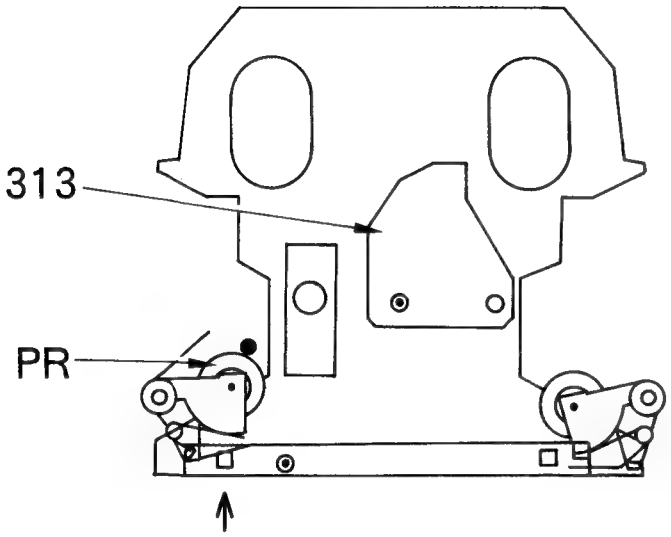
④ The head chassis rises in the same way as in the forward play, and is fixed at the RVS PLAY/REC position.



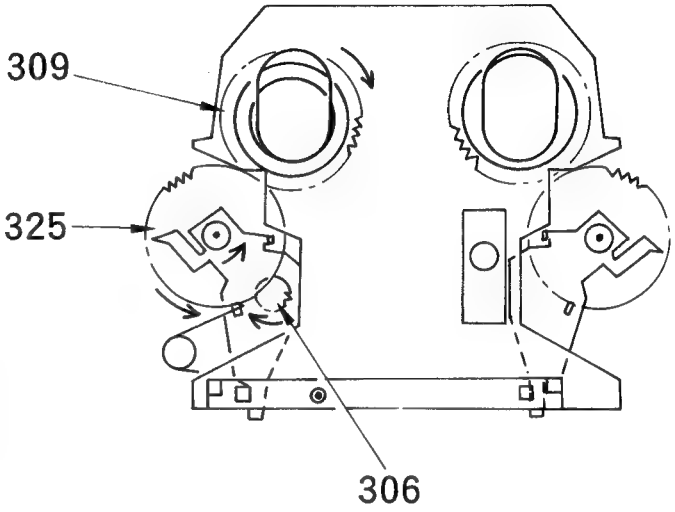


MECHANISM DESCRIPTION

⑤ When the head lever moves, the pinch roller (L) is pushed up.

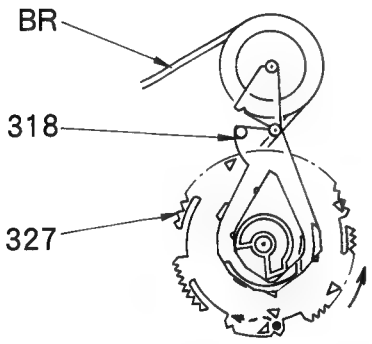


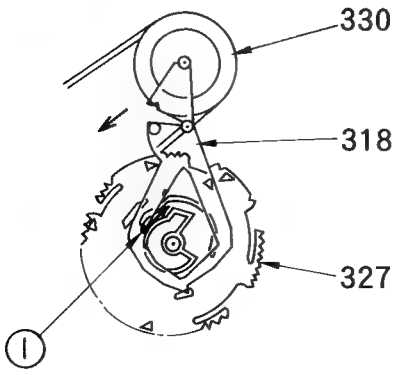
⑥ The play gear is engaged with the gear of the sub-reel ASS'Y and the rotation of the flywheel (L) is transmitted to the reel (L).



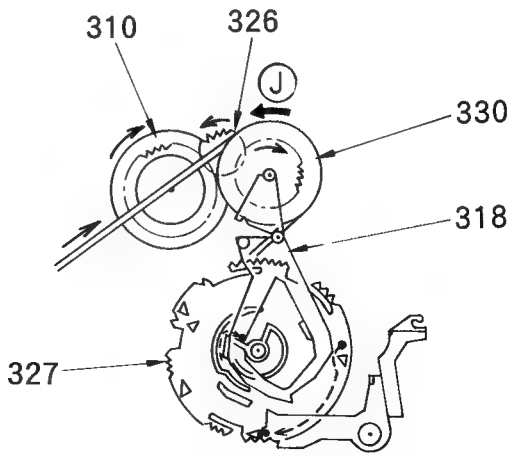
FF

① The plunger turns ON for 30ms.
② The cam gear begins to rotate.
③ The FR arm ASS'Y is pulled to the arrow direction by the belt of the FR pulley ASS'Y.
As a result, the boss Ⓘ on the FR arm ASS'Y passes through the innermost circumference trajectory on the cam gear.





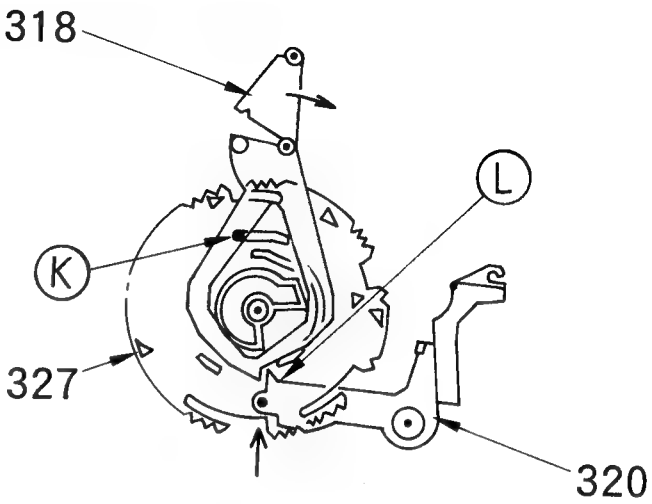
④ After 420 ms the plunger is turned ON once again for 30 ms and passes over the stopper, the cam gear continues to rotate, and is held at the next stopper position.
At that time the FR arm ASS'Y also moves in the arrow direction Ⓙ, the gear of the FR pulley ASS'Y and the gear of the sub-reel ASS'Y (R) are engaged with the FF gear, the reel (R) is rotated, and as a result the mechanism gets in the FF mode.

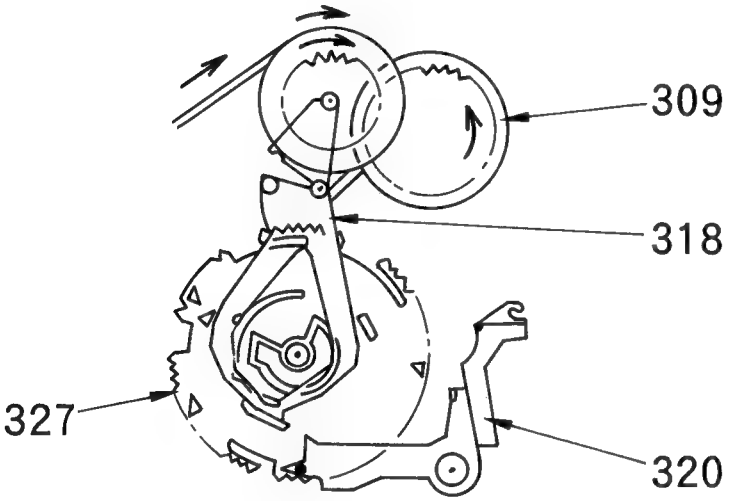


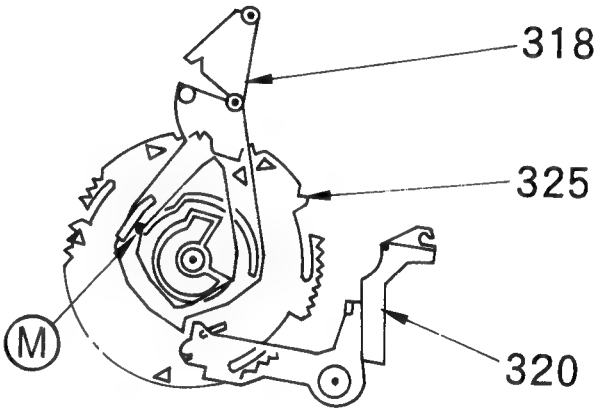
MECHANISM DESCRIPTION

RWD

1. The plunger turns ON for 30 ms, and the cam gear begins to rotate.
2. After 250 ms the plunger turns ON once again for 250 ms, but since the FR arm ASS'Y is tilted to the arrow direction by the boss Ⓚ at that time, the FR arm ASS'Y is held by the projection Ⓛ of the trigger arm, it is further tilted to the sub-reel ASS'Y Ⓛ direction by the boss Ⓜ, and the reel Ⓛ rotates, thereby switching the operation of the mechanism to the RWD mode.

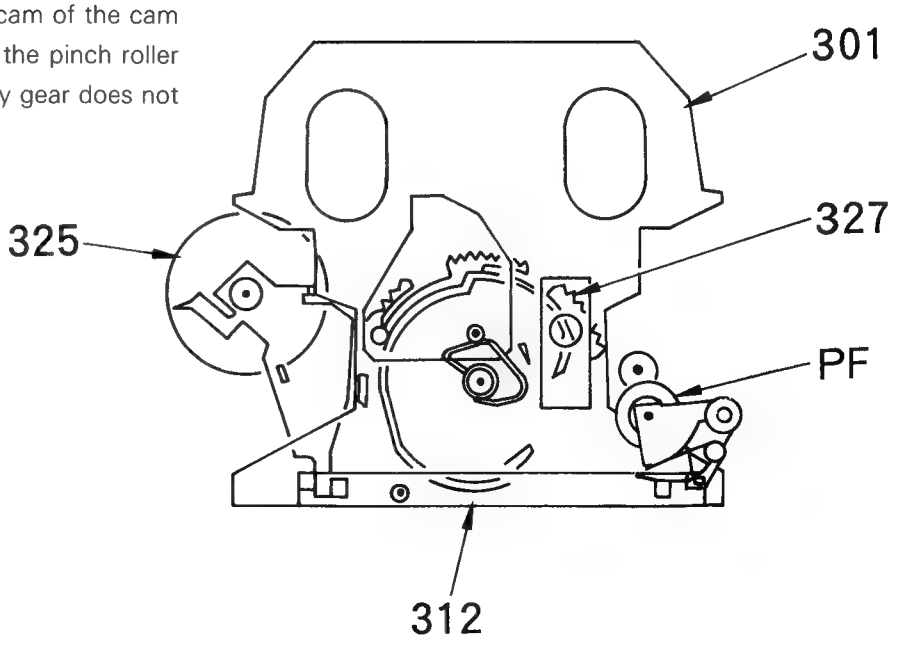






FF/RWD

The head chassis is also raised by the cam of the cam gear, but it is held at a position where the pinch roller does not touch the capstan and the play gear does not touch the reel ASS'Y.



MECHANISM DESCRIPTION

PLAY/REC → STOP

① The plunger turns ON for 30 ms.

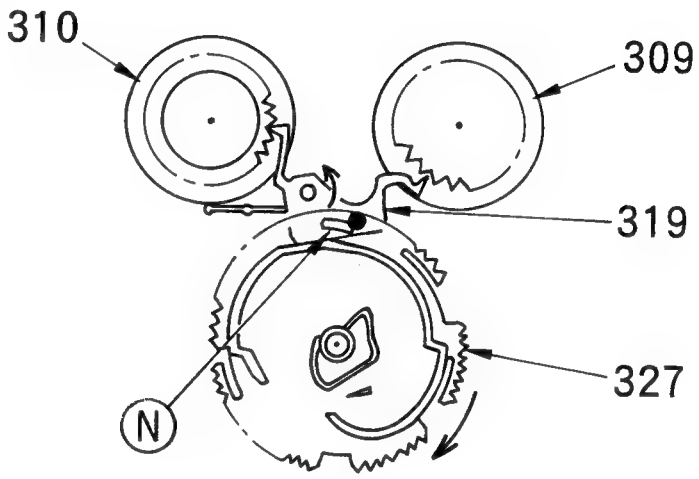
② After 120 ms the plunger turns ON once again and is kept ON for 270 ms in the FWD mode and for 400 ms in the RVS mode, and the cam gear rotates up to the STOP position.

FF/RWD → STOP

① The plunger turns ON for 210 ms, and the cam gear rotates up to the STOP position.

BRAKE

① Since the brake arm is rotated in the arrow direction by the boss (N) on the cam gear, the gear of the reel ASS'Ys (L) and (R) are stopped for approximately 40 ms immediately before the STOP position.

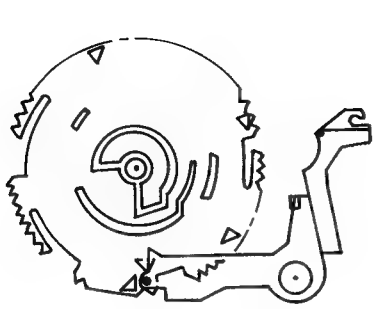


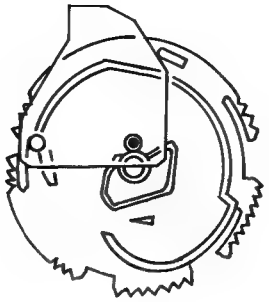
CUE/REVIEW

The cam gear mechanism is returned once from the PLAY state to the STOP position, and then it is carried once again to the CUE/REVIEW position by the plunger.

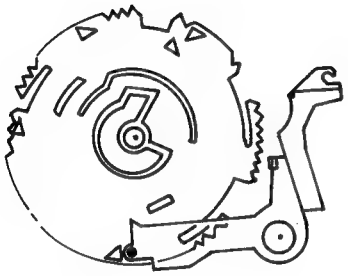
MECHANISM DESCRIPTION

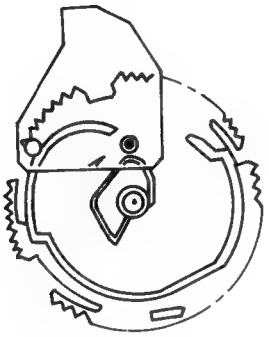
POSITION OF THE CAM GEAR IN THE VARIOUS MODES.



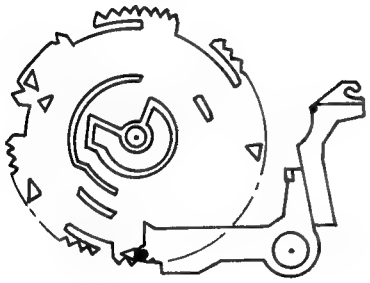


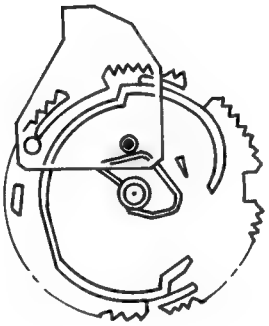
STOP



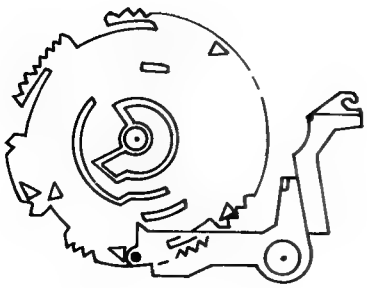


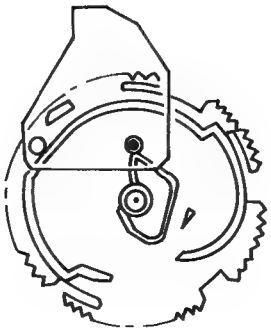
PLAY/REC





FF/RWD





CUE/REVEW

ADJUSTMENT

Order	Item	Input setting	Output setting	Deck settin	Adjustment points	Adjustment method	Fig.
Unless otherwise specified, set the respective switches as folllosw: TAPE: NORMAL DOLBY: OFF INPUT: LINE I. Cassette mechanism section (Recording/play head adjustment)							
(1)	Degaussing and cleaning	—	—	Power: off, Degaussing, cleaning, PLAY	Recording heads, Erase heads, Capstans, Pinch rollers	Degauss the record-ing/play heads by a head eraser. Clean the recording/play heads, erase heads capstans and pinch rollers by a cotton swab soaked with alcohol.	
(2)	Recording/play head azimuth	SCC-1727, TCC-153, MTT-114, 10 kHz, −10 dBs	(B)	PLAY	Azimuth adjust-ment screw	Maximize the output and adjust so that the Lissajous figure nears a line slanted 45°	(a)
II. Printed circuit board adjustment Note: First perform the double-speed adjustment.							
(1)	Tape speed (double)	SCC1727 TCC-110 MTT-114 3 kHz	(B)	TEST MODE [4] → [3] short AC PLUG CON-NECT TO AC OUTLET FF KEY HI-SPEED F. PLAY NOR SPEED KEY	A DECK: VR51 B DECK: VR53	Adjust so that the fre-quency is 6 kHz at the tape center.	
(2)	Tape speed (normal)	SCC1727 TCC-110 MTT-111 3 kHz	(B)		A DECK: VR50 B DECK: VR52	Adjust so ;that the frequency is 3 kHz at the tape center.	
III. Printed circuit board adjustment							
(1)	Playback level	MTT-150 400 Hz	(B)	PLAY	A DECK: VR1 (L) VR2 (R) B DECK: VR3 (L) VR4 (R)	Adjust that the play-back output is −1 dBs	
		MTT-256, SCC1727 315 Hz (160 mWb/m)				Adjust that the play-back output is −4 dBs	
		MTT-256U, TCC-160 315 Hz (250 mWb/m)				Adjust that the play-back output is −0 dBs	
(2)	Bias current	1 kHz −20 dBs	(B)	Adjust electronic volume so that the recording monitor output becomes −20 dBs at 1 kHz, and record and play 1 kHz adn 10 kHz alter-nately.	A DECK: VR5 (L) VR6 (R) B DECK: VR7 (L) VR8 (R)	Record 1 kHz and 10 kHz reciprocally, and adjust so that they are identical in pplay-back level.	
(3)	RECORD LEVLE	1 kHz −10 dBs	(B)	1 kHz −10 dBs	A DECK (L): VR11 (R): VR12 B DECK (L): VR13 (R): VR14	Adjust the rairable resistor so that t playing level at −10 dBs is obtained.	
(4)	BIAS OSCILAT-ING FREQUENCY	Load the non recorded tapes on Deck A and B.	Connect the fre-quency counter between E. H & GND on Deck A, between E. H & GND on Deck B.	REC	DECK A: L20 DECK B: L21	Adjust so that the fre-quency counter shows 105 kHz.	
(5)	BIAS LEAK	Load a the non	(B)	Load a metal tape. and dub in a high speed mode.	L9 (L) L10 (R)	Minimum (Point)	

KX-W6050

REGLAGE

Ordre	Sujet	Réglage d'entrée	Réglage de sortie	Réglage de platine	Points d'ajustement	Méthode d'ajustement	Figure
A moins, de spécification contraire, régler les commutateurs respectils comme suit: TAPE: NORMAL DOLBY: OFF INPUT: LINE							
I. Section de mécanisme de cassette (ajustement de tête d'enregistrement/lecture)							
(1)	Démagnétisation et nettoyage	–	–	Alimenmtation coupée, démagnétisation, nettoyage, lecture	Têtes d'enregistrement, têtes d'effacement, cabestans, galets presseur	Démagnétiser les têtes d'enregistrement/lecture avec un seffaceur de tête. Nettoyer les tête d'enregistremet/lecture, les têtes d'effacement, les cabestans et les galets presseur avec un coton-tige trempé dans de l'alcool.	
(2)	Azimut de tête d'enregistrement/lecture	SCC-1727, TCC-153, MTT-114, 10 kHz, −10 dBs	(B)	PLAY	Vis d'ajustement de l'azimut	Maximiser la sortie et ajuster pour que al figure de Lissajous s'approche d'une ligne inclineé sur 45°	(a)
II. Ajustement de la plaquette de circuits imprimés. Note: Commencer par effectuer le réglage de la vitesse double.							
(1)	Vitesse de bande (double)	SCC1727 TCC-110 MTT-114 3 kHz	(B)	MODE TEST [4] → [3] reliées FICHE SECTEUR BRANCHEE A UNE PRISE DE COURANT TOUCHE FF GRANDE VITESSE TOUCHE DE LECTURE AVANT VITESSE NORMALE	A DECK: VR51 B DECK: VR53	Ajuster pour que la fréquence soit 6 kHz au centre de bande	
(2)	Vitesse de bande (normale)	SCC1727 TCC-110 MTT-111 3 kHz	(B)		A DECK: VR50 B DECK: VR52	Ajuster pour que la fréquence soit 3 kHz au centre de bande.	
III. Ajustement de la plaquette de circuit imprimé.							
(1)	Niveau de lecture	MTT-150 400 Hz	(B)	PLAY	A DECK: VR1 (L) VR2 (R) B DECK: VR3 (L) VR4 (R)	Ajuster pour que la sortie de lecture soit de −1 dBs	
		MTT-256, SCC1727 315 Hz (160 mWb/m)				Ajuster pour que la sortie de lecture soit de −4 dBs	
		MTT-256U, TCC-160 315 Hz (250 mWb/m)				Ajuster pour que la sortie de lecture soit de −0 dBs	
(2)	Coourant de polarisation	1 kHz −20 dBs	(B)	Ajuster les VR électroniques pour que la sortie de contrôle d'enregistrement soit de −20 dBs à 1 kHz pouis enregistrer 1 kHz et 10 kHz réciproquement et les fire.	A DECK: VR5 (L) VR6 (R) B DECK: VR7 (L) VR8 (R)	Enregister 1 kHz et 10 kHz réciproquement et ajuster pour qu'ils et ajuster pour qu'ils soient identiques au niveau de lecture.	
(3)	Niveau d'enregistrement (LEVEL)	1 kHz −10 dBs	(B)	1 kHz −10 dBs	A DECK (L): VR11 (R): VR12 B DECK (L): VR13 (R): VR14	Régler la résistance variable pour obtenir un niveau de lecture de −10 dB.	
(4)	FREQUENCE D'OSCILLATION DE POLARISATION	Mettre en place des cassettes non enregistrees dans les platines A et B	Raccorder le compteur de frequence enter E. H et GND de la platine A. enter E. H et GND de la platine B.	Emregiostrement	DECK A: L20 DECK B: L21 (X28-1380-01)	Regler de maniere à ce que le coaputeur de frequence indique 105 kHz.	
(5)	FUITE DE POLARISATION	Mettre en place une cassette non enregistree dans la platine A	(B)	Mettre en place unebande metal et copier en mode de vitesse elevee.	L9 (L) L10 (R)	Minimum (Point)	

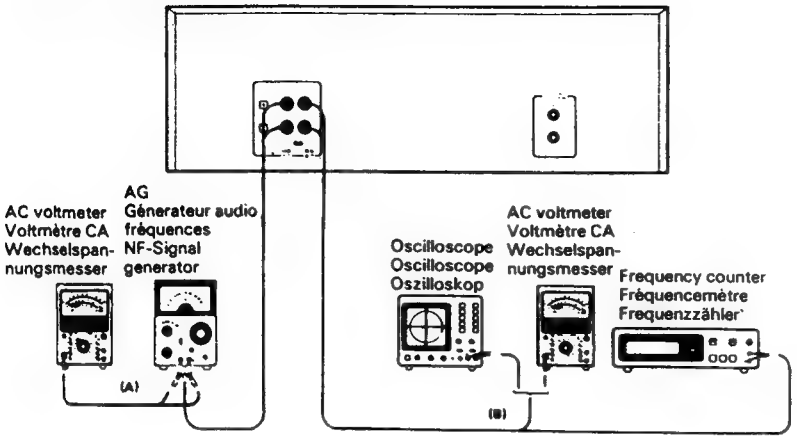
ABGLEICH

Rel-henfo-lge	Gegenstand	Eingangs-Einstellung	Ausgangs-Einstellung	Deck-Einstellung	Abgleichpunkte	Abgleichmethod	Ab-lldung
Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: TAPE: NORMAL DOLBY: OFF INPUT/ LINE							
I. Kassettenmechanismums-Teil (Einstellung des Aufnahme-/Wiedergabekopfes)							
(1)	Entmagnetisierung und Reinigung	—	—	Ausschalten, Entmagnetisierung. Reinigung, Wiedergabe	Aufnahmeköpfe Löschköpfe, Tonwellen, Andruckrollen	Die Aufnahme-/Wiedergabeköpfe mit einem Tonkopf-Entmagnetisierer entrmagnetisieren. Die Aufnahme-/Wiedergabeköpfe, die Löschköpfe, die Tonwellen und die Andruckrollen mit einem mit Alkohol befeuchteten Wattestäbchen reinigen.	
(2)	Azimuth des Aufnahme-/Wiedergabekopfes	SCC-1727, TCC-153, MTT-114, 10 kHz, −10 dBs	(B)	PLAY	Azimuth-Einstellschraube	Den Ausgang maximieren und so einstellen, daß die Lissajousfigur sich einer um 45° geneigten Linie annähert.	(a)
II. Leiterplatten-Einstellung. Hinseis: Zuerst die Doppelgeschwindigkeitsenstelung durchführen.							
(1)	Bandgeschwindigkeit (droppelt)	SCC1727 TCC-110 MTT-114 3 kHz	(B)	TEST-MODUS [4] → [3] kurz NETSTECKER-ANSCHL AN NETZ-STECKDOSE FF KEY HIGH-SPEED F. PLAY KEY NOR-SPEED	A DECK: VR51 B DECK: VR53	So einstellen, daß die Frequenz in der Bandmitte 6 kHz beträgt	
(2)	Bandgeschwindigkeit (normale)	SCC1727 TCC-110 MTT-111 3 kHz	(B)		A DECK: VR50 B DECK: VR52	So einstellen daß die Frequenz in der Bandmitte 3 kHz beträgt	
III. Leiterplatten-Einstellung (X28-2300)							
(1)	Wiederbepegel	MTT-150 400 Hz	(B)	PLAY	A DECK: VR1 (L) VR2 (R) B DECK: VR3 (L) VR4 (R)	So einstellen, daß der Wiedergabe-Ausgang −1 dBs beträgt	
		MTT-256, SCC1727 315 Hz (160 mWb/m)				So einstellen, daß der Wiedergabe-Ausgang −4 dBs beträgt	
		MTT-256U, TCC-160 315 Hz (250 mWb/m)				So einstellen, daß der Wiedergabe-Ausgang −0 dBs beträgt	
(2)	Vormagnetisierungsstrom	1 kHz −20 dBs	(B)	Die elektronischen Regewiderstände so einstellen, daß der Aufnahme-monitor-Ausgang −20 dBs bei 1 kHz beträgt, dann 1 kHz und 10 kHz abwechsend aufnehmen und wiedergeben.	A DECK: VR (5L) VR (6R) B DECK: VR (7L) VR (8R)	1 kHz und 10 kHz abwechselnd aufnehmen und so einstellen, daß sie im Wiedergabepegel identisch sind.	
(3)	AUFNAHMEPEGEL	1 kHz −10 dBs	(B)	1 kHz −10 dBs	A DECK (L): VR11 (R): VR12 B DECK (L): VR13 (R): VR14	Den Stellwiderstand so einstellen, daß ein Wiedergabepegel von −10 dBs erhalten wird	
(4)	VORMAGNETISIERUNGS OSZILLATIONS-FREQUENZ	Unbespielte Kassetten in Deck A und B einsetzen.	Den Frequenzzahler zwischen E. H und GND von Deck A und zwischen E. H und GND von Deck B anschließen.	REC	DECK A: L20 DECK B: L21	So einstellen. deß 105 kHz auf dem Frequenzzahler angezeigt wird.	
(5)	VORMAGNETISIERUNGSSTREUUNG	Eine unbespielte kassette in Deck A einsetzen.	(B)	Eine Metal I bandkassette einsetzen und mit hoher Geschwindigkeit Überspielen.	L9 (L) L10 (R)	Minimum (Punkt)	

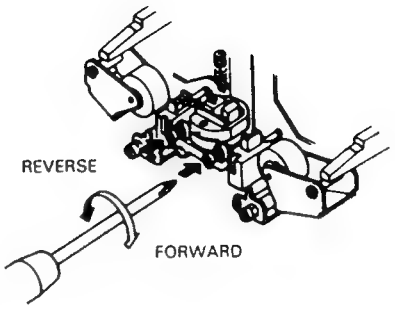
KX-W6050

ADJUSTMENT/REGLAGE/ABGLEICH

SYSTEM CONNECTIONS

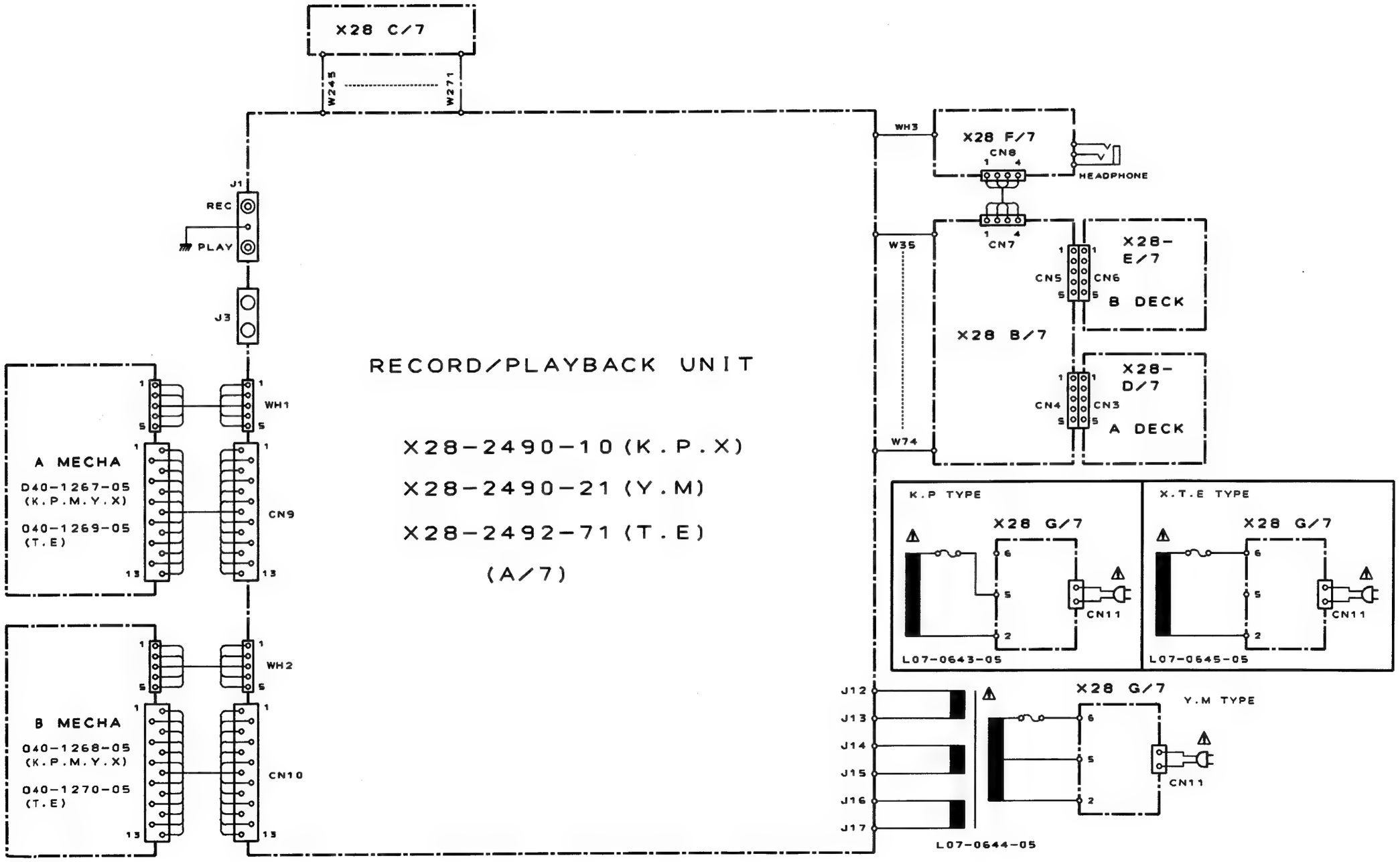


(a) AZIMUTH ADJUSTMENT SCREW



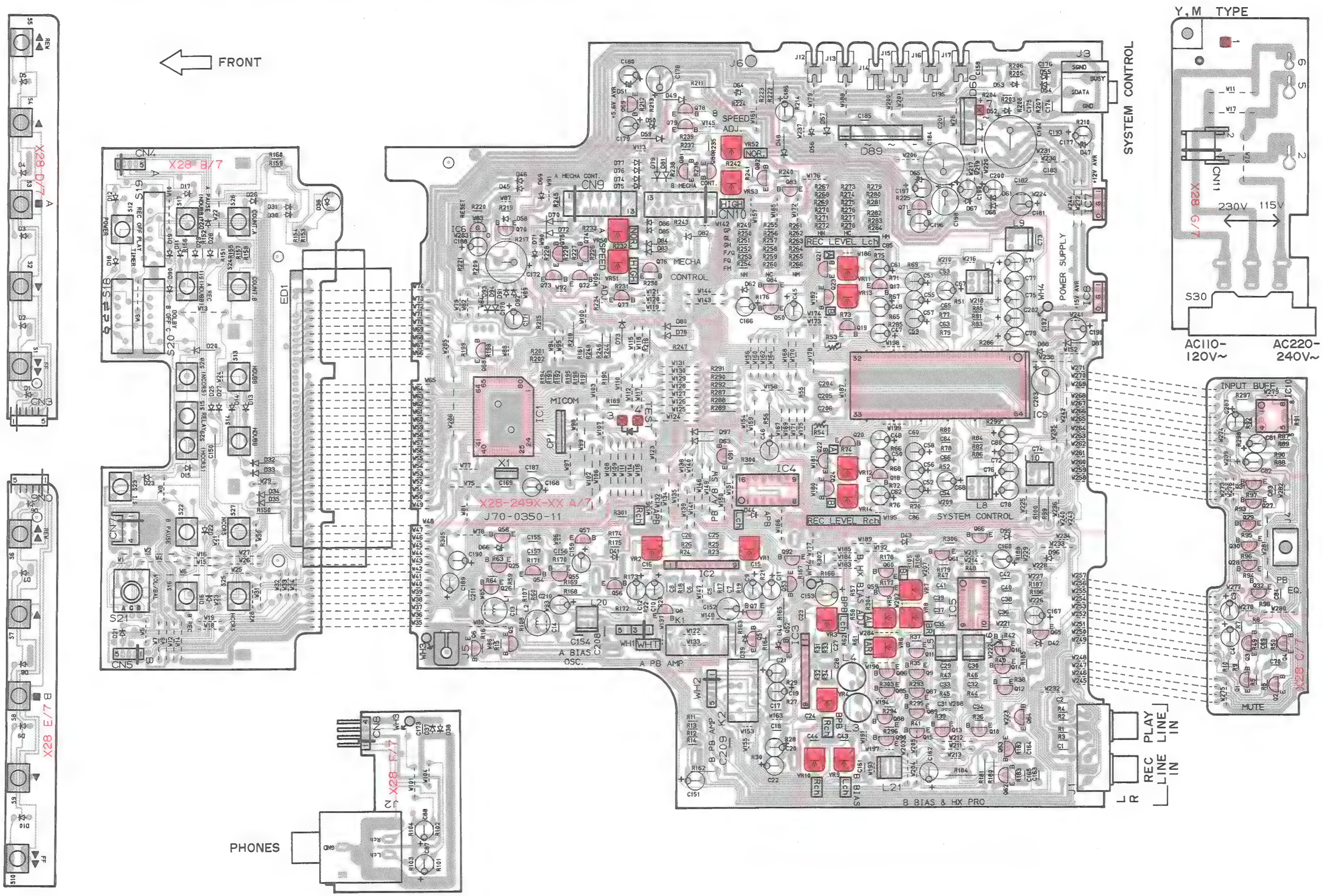
KX-W6050 KX-W6050

WIRING DIAGRAM

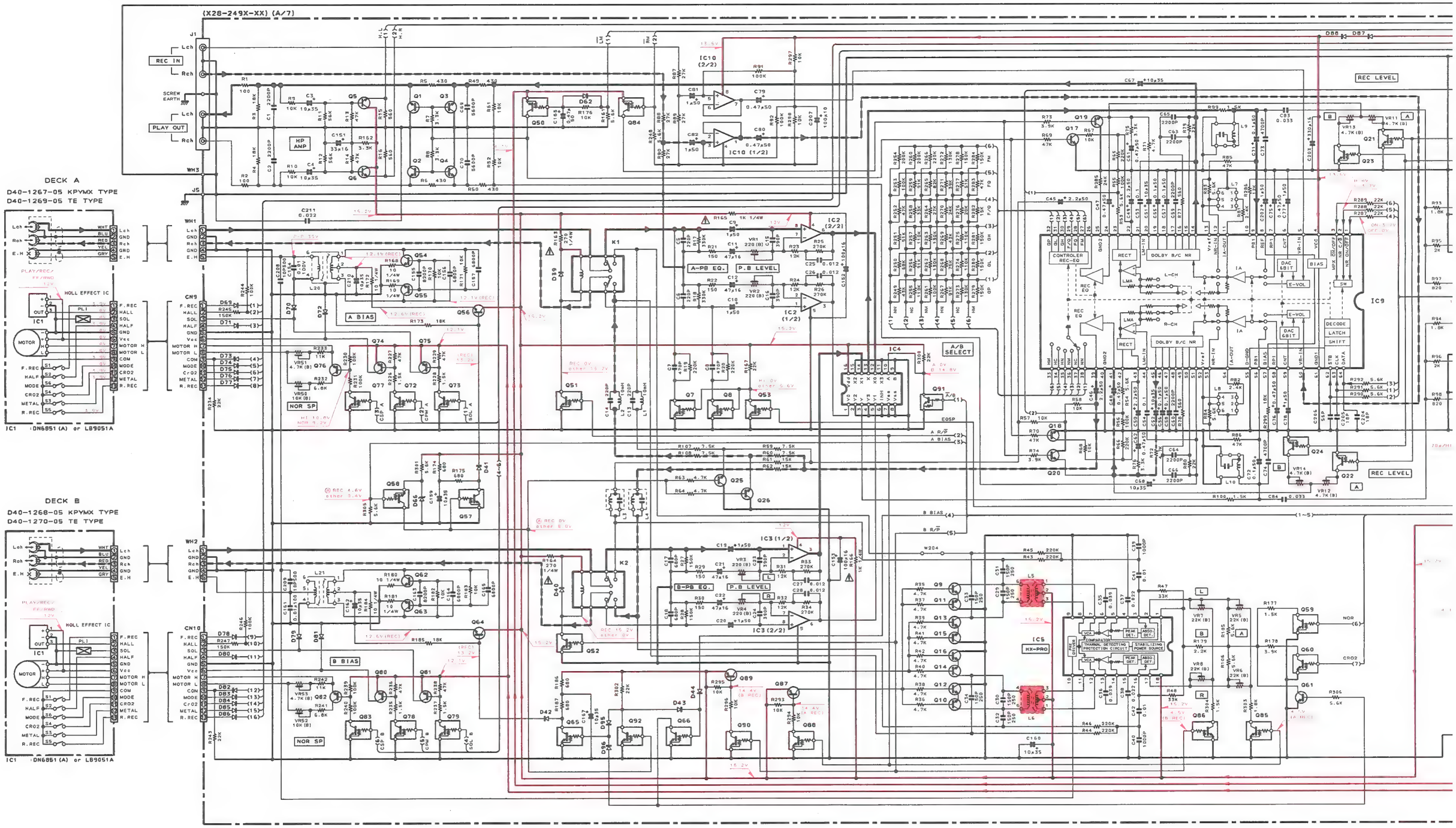


PC BOARD (Component side view)

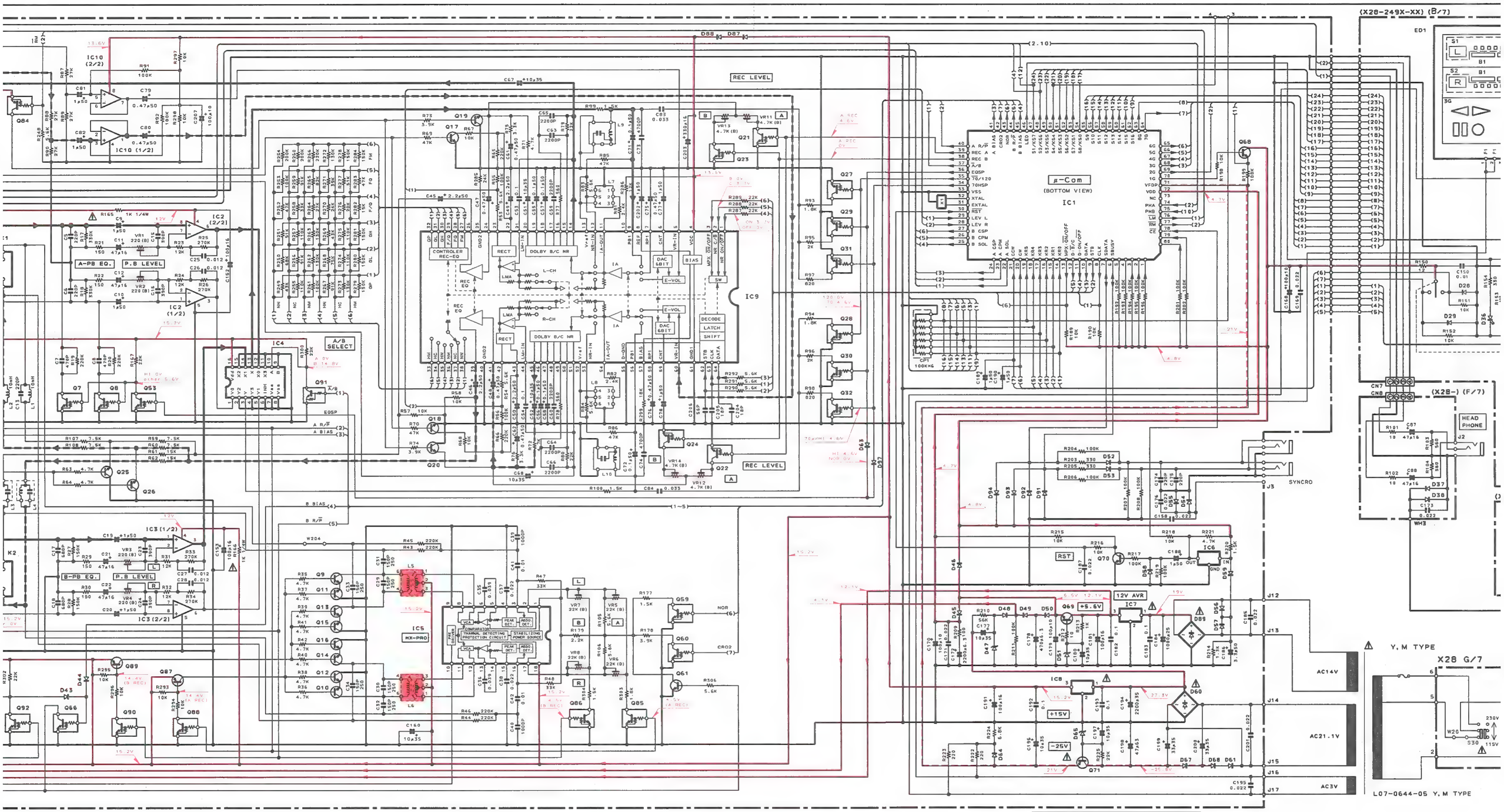
RECORD/PLAYBACK AMPLIFIER UNIT (X28-2490-10 : K, P, X 0-21 : Y, M 2-71 : T, E)



Refer to the schematic diagram for the values of resistors and capacitors.



IC1	:CXP82324-126Q	IC8	:XRA17815T	Q1~4. 19. 20. 61	:2SD1302(S. T)	Q17. 18. 25. 26	:2SC1740S(Q. R)	Q71	:2SA1123(R. S)	D1~29. 37~45. 48~50	:1SS133 or HSS104
IC2.3	:TA8125S	IC9	:HA12157NTA	Q5. 6. 9~16	:2SC1845(F. E)	54. 55. 62. 63	or 2SC3311A(Q. R)	Q74. 75. 80. 81	:2SA1534A(R. S)	52~59. 61~63. 67~69	
IC4	:XRU4052B	IC10	:XRA15218-DX	Q7. 8. 21~24. 27~32		68. 70		Q76. 82	:2SA933S(Q. R)	71. 74~78. 80. 83~88	
IC5	:μPC1297CA		or NJM4565D-D	51~53. 59. 60. 65. 66		Q50. 58. 84	:UN4112 or DTA124ES		or 2SA1309A(Q. R)	91~96. 97	
IC6	:PST529D	ED1	:BJ128GK	72. 73. 77~79. 83. 85		Q56. 64. 69	:2SC3940A(R. S)	Q87. 89	:2SA992(F. E)	D30~35. 46. 73. 82	:RB721Q
IC7	:XRA17812T			86. 88. 90. 91		Q57. 92	:UN4216 or DTC143TS				



: 2SD1302 (S, T)	Q17, 18, 25, 26	: 2SC1740S (Q, R)	Q71	: 2SA1123 (R, S)	D1~29, 37~45, 48~50 : 1SS133 or HSS104
: 2SC1845 (F, E)	54, 55, 62, 63	or 2SC3311A (Q, R)	Q74, 75, 80, 81	: 2SA1534A (R, S)	52~59, 61~63, 67~69
: UN4212 or DTC124ES	68, 70		Q76, 82	: 2SA933S (Q, R)	71, 74~78, 80, 83~88
	Q50, 58, 84	: UN4112 or DTA124ES		or 2SA1309A (Q, R)	91~96, 97
	Q56, 64, 69	: 2SC3940A (R, S)	Q87, 89	: 2SA992 (F, E)	D30~35, 46, 73, 82 : RB721Q
	Q57, 92	: UN4216 or DTC143TS			

D36	: B30-1291-05
D47, 64, 66	: RD3.9ES (B2) or HZS3.9N (B2)
D51	: RD6.2ES (B2) or HZS6.2N (B2)
D60	: KBP02ML-612 or RBV-402LFA
D65	: RD24ES (B) or HZS24N (B)
D70, 72, 79, 81	: S5688B or 1SR139-100
D89	: D3SBA20F03

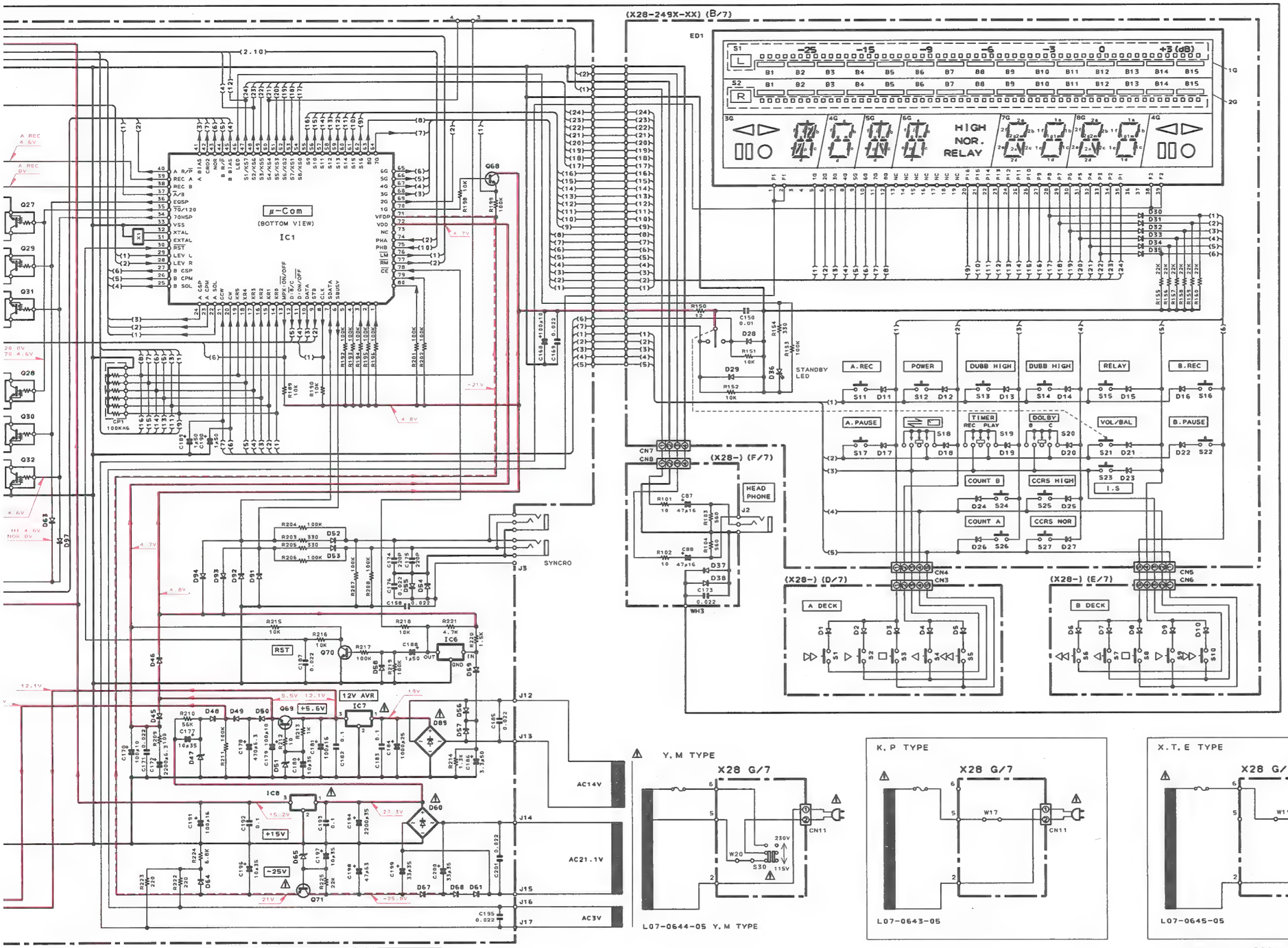
DESTINATION		UNIT NAME
COUNTRY	ABB.	
U S A	K	X28-2490-10
CANADA	P	X28-2490-10
EUROPE	Y	X28-2490-21
OTHER AREAS	M	X28-2490-21
AUSTRALIA	X	X28-2490-10
ENGLAND	T	X28-2492-71
EUROPE	E	X28-2492-71

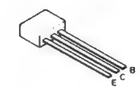
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode de lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

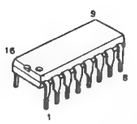
Die angegebenen Gleichspannungswe
setzter Cassette in der Wiedergabe m
Spannungsmesser gemessen. Dabei
werte aufgrund von Unterschieden
strumenten oder Geräten u. U. geringf
Gleichspannungswerte der Vorma
wurden in der Aufnahme-Betriebsart ge

L07-0644-05 Y, M TYPE

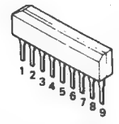




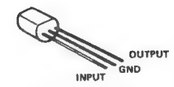
UN4212
UN4216
2SA1309A
2SC3311A



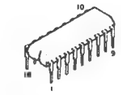
XRU4052B



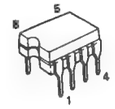
TA8125S



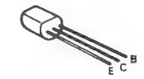
PST529D



UPC1297CA

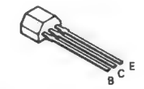


NJM4565D-D



2SA1123
2SA1534A
2SA992

2SC1845
2SC3940A
2SD1302



DTA124ES
DTC124ES
DTC143TS

UN4112
2SA933S
2SC1740S

DESTINATION		UNIT NAME
COUNTRY	ABB.	
U S A	K	X28-2490-10
CANADA	P	X28-2490-10
EUROPE	Y	X28-2490-21
OTHER AREAS	M	X28-2490-21
AUSTRALIA	X	X28-2490-10
ENGLAND	T	X28-2492-71
EUROPE	E	X28-2492-71

D36 : B30-1291-05
D47, 64, 66 : RD3.9ES(B2) or HZS3.9N(B2)
D51 : RD6.2ES(B2) or HZS6.2N(B2)
D60 : KBP02ML-6122 or RBV-402LFA
D65 : RD24ES(B) or HZS24N(B)
D70, 72, 79, 81 : S5688B or 1SR139-100
D89 : D3SBA20F03

oltages are as measured with a high impedance voltme-
ith a cassette loaded at playback mode. Values may vary
ly due to variations between individual instruments
d units. Bias circuit DC voltages are as measured while in
ecord mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

Die angegebenen Gleichspannungswerte wurden bei eingesetzter Cassette in der Wiedergabe mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig. Die angegebenen Gleichspannungswerte der Vormagnetisierungsschaltung wurden in der Aufnahme-Betriebsart gemessen.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

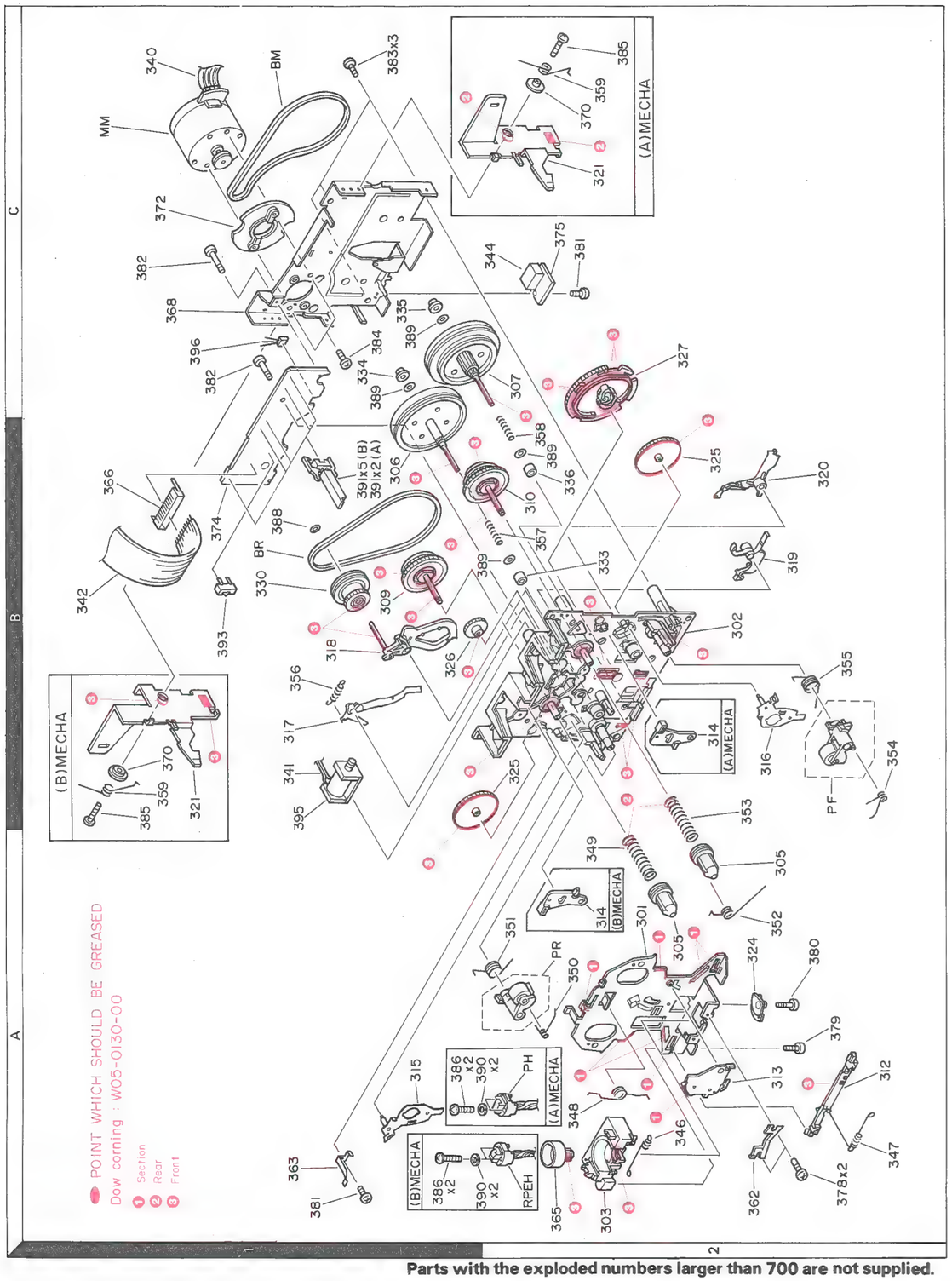
Y26-3580-10

KX-W6050

KENWOOD

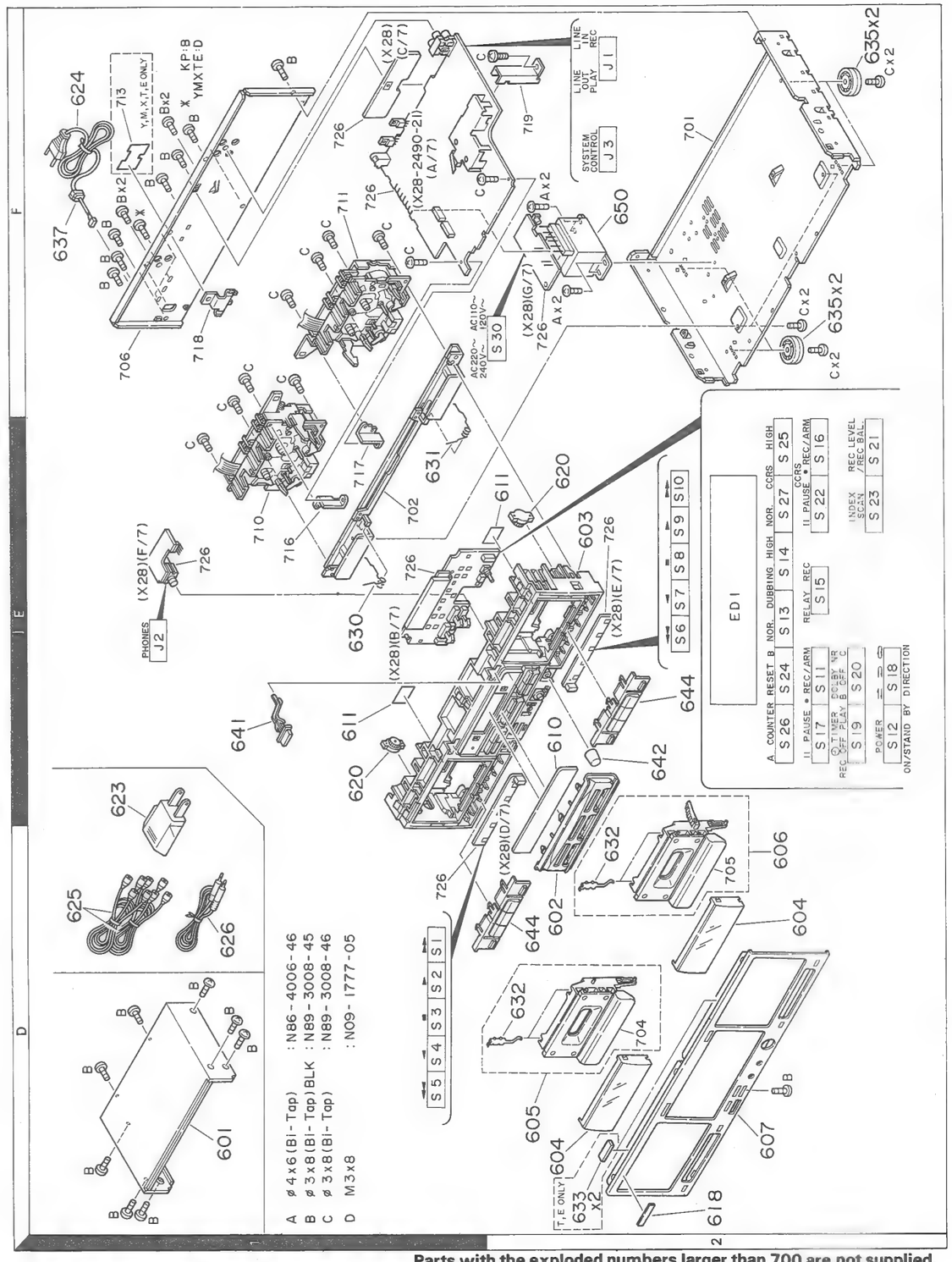
KX-W6050

EXPLODED VIEW (MECHANISM UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.

KX-W6050

RECORD/PLAYBACK UNIT

Unit No.	Destination
X28-2490-10	K, P, X
X28-2490-21	Y, M
X28-2490-71	T, E

MECHANISM ASSEMBLY

D40-1267-05	A DECK : K, P, Y, M, X
D40-1268-05	B DECK : K, P, Y, M, X
D40-1269-05	A DECK : T, E
D40-1270-05	B DECK : T, E

PARTS LIST

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KX-W6050						
601	1D	*	A01-3018-01	METALLIC CABINET	KPYMX	
601	1D	*	A01-3031-01	METALLIC CABINET	TE	
602	2D	*	A21-1824-03	DRESSING PANEL		
603	2E	*	A22-1603-11	SUB PANEL		
604	2D	*	A53-1383-14	CASSETTE LID		
605	2D	*	A53-1384-03	CASSETTE HOLDER ASSY		
606	2D	*	A53-1386-03	CASSETTE HOLDER ASSY		
607	2D	*	A60-0325-02	PANEL	KPYMX	
607	2D	*	A60-0367-02	PANEL	TE	
610	2E	*	B03-2806-03	DRESSING PLATE		
611	1E,2E		B07-1720-04	ESCUTCHEON		
618	2D		B43-0287-04	KENWOOD BADGE		
-			B46-0092-13	WARRANTY CARD	K	
-			B46-0094-03	WARRANTY CARD	Y	
-			B46-0095-03	WARRANTY CARD	Y	
-			B46-0096-33	WARRANTY CARD	X	
-		*	B46-0121-23	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	E	
-			B46-0143-13	WARRANTY CARD	T	
-			B46-0197-00	QUESTIONAIRE CARD	K	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	Y	
-		*	B60-1062-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-1063-00	INSTRUCTION MANUAL (FRENCH)	PE	
-		*	B60-1064-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-1065-00	INSTRUCTION MANUAL (SPANISH)	ME	
-		*	B60-1066-00	INSTRUCTION MANUAL (GB,DU,IT)	E	
620	1E,2E		D39-0176-05	DAMPER		
⚠ 623	1E		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 624	1F		E30-2592-15	AC POWER CORD	ME	
⚠ 624	1F		E30-2605-05	AC POWER CORD	Y	
⚠ 624	1F		E30-2650-05	AC POWER CORD	KP	
⚠ 624	1F	*	E30-2717-05	AC POWER CORD	X	
⚠ 624	1F		E30-2721-05	AC POWER CORD	T	
625	1D		E30-0505-05	AUDIO CORD		
626	1D		E30-2733-05	CORD WITH PLUG		
630	1E	*	G01-3516-04	TORSION COIL SPRING		
631	1E	*	G01-3517-04	TORSION COIL SPRING		
632	2D		G02-0944-04	FLAT SPRING		
633	2D		G13-0439-04	CUSHION	TE	
		*	H13-0116-04	CARTON BOARD	X	
		*	H50-0512-04	ITEM CARTON CASE	KPYMXE	
		*	H50-0563-04	ITEM CARTON CASE	T	
-			H10-5101-12	POLYSTYRENE FOAMED FIXTURE	KPYMXE	
-			H10-5102-12	POLYSTYRENE FOAMED FIXTURE	KPYMXE	
-		*	H10-5420-02	POLYSTYRENE FOAMED FIXTURE	T	
-		*	H10-5421-02	POLYSTYRENE FOAMED FIXTURE	T	
-			H20-0554-04	PROTECTION COVER	M	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	KPYMXE	
-			H25-0330-04	PROTECTION BAG	KPYXE	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0658-04	PROTECTION BAG (0330 PRINTED)	T	

L:Scandinavia **K:**USA **P:**Canada
Y:PX(Far East, Hawaii) **T:**England **E:**Europe
Y:AAFES(Europe) **X:**Australia **M:**Other Areas

⚠ indicates safety critical components.

PARTS LIST

× New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
635	2F		J02-1013-05	FOOT REAR	KP	
635	2F		J02-1024-05	FOOT FRONT	KP	
635	2F		J02-1034-05	FOOT	YMXTE	
⚠ 637	1F		J42-0083-05	POWER CORD BUSHING		
641	1E		K29-3592-04	KNOB EJECT		
642	2E	*	K29-5627-04	KNOB REC LEVEL,REC BALANCE		
644	2D,2E	*	K29-5626-03	KNOB PLAY		
⚠ 650	2F	*	L07-0643-05	POWER TRANSFORMER	KP	
⚠ 650	2F	*	L07-0644-05	POWER TRANSFORMER	YM	
⚠ 650	2F	*	L07-0645-05	POWER TRANSFORMER	XTE	
A	2F		N86-4006-46	BINDING HEAD TAPTITE SCREW		
B	1D,1F		N89-3008-45	BINDING HEAD TAPTITE SCREW		
C	1E,1F		N89-3008-46	BINDING HEAD TAPTITE SCREW		
D	1F		N09-1777-05	SEMUS SCREW M3X8	YMXTE	
RECORD/PLAYBACK AMPLIFIER UNIT (X28-2490-10 : K, P, X 0-21 : Y, M 2-71 : T, E)						
D36			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1 ,2			CQ92FM1H222J	MYLAR 2200PF J		
C3 ,4			CE04KW1V100M	ELECTRO 10UF 35WV		
C5 ,6			CC45FSL1H221J	CERAMIC 220PF J		
C7 ,8			CK45FB1H471K	CERAMIC 470PF K		
C9 ,10			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C11 ,12			CE04KW1C470M	ELECTRO 47UF 16WV		
C13 ,14			CC45FSL1H221J	CERAMIC 220PF J		
C15 ,16			CK45FB1H391K	CERAMIC 390PF K		
C17 ,18			CK45FB1H681K	CERAMIC 680PF K		
C19 ,20			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C21 ,22			CE04KW1C470M	ELECTRO 47UF 16WV		
C23 ,24			CK45FB1H391K	CERAMIC 390PF K		
C25 -28			CQ92FM1H123J	MYLAR 0.012UF J		
C29 -34			C91-1434-05	FILM 150PF J		
C35 ,36			CF92FV1H393J	MF 0.039UF J		
C37 ,38			CQ92FM1H223J	MYLAR 0.022UF J		
C39 ,40			CK45FB1H102K	CERAMIC 1000PF K		
C41 ,42			CQ92FM1H103J	MYLAR 0.010UF J		
C45 ,46			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C47 ,48			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C49 ,50			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C51 ,52			CE04KW1V100M	ELECTRO 10UF 35WV		
C53 ,54			CF92FV1H104J	MF 0.10UF J		
C55 -58			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C59 ,60			CQ92FM1H222J	MYLAR 2200PF J		
C61 ,62			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C63 -66			CQ92FM1H222J	MYLAR 2200PF J		
C67 ,68			CE04KW1V100M	ELECTRO 10UF 35WV		
C69 ,70			CQ92FM1H562J	MYLAR 5600PF J		
C71 ,72			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C73 ,74			CQ92FM1H472J	MYLAR 4700PF J		
C75 ,76			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C77 ,78			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C79 ,80			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C81 ,82			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C83 ,84			CF92FV1H333J	MF 0.033UF J		
C87 ,88			CE04KW1C470M	ELECTRO 47UF 16WV		

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C150			C91-0769-05	CERAMIC 0.01UF K		
C151			CE04KW1C330M	ELECTRO 33UF 16WV		
C152,153			CE04KW1C101M	ELECTRO 100UF 16WV		
C154			CQ93HP2A103J	MYLAR 0.010UF J		
C155			CQ92FM1H822J	MYLAR 8200PF J		
C156,157			CQ92FM1H682J	MYLAR 6800PF J		
C158			CK45FF1H223Z	CERAMIC 0.022UF Z		
C159,160			CE04KW1V100M	ELECTRO 10UF 35WV		
C161			CQ93HP2A103J	MYLAR 0.010UF J		
C162			CE04KW1V100M	ELECTRO 10UF 35WV		
C163			CQ92FM1H822J	MYLAR 8200PF J		
C164,165			CQ92FM1H682J	MYLAR 6800PF J		
C166			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C167			CE04KW1V100M	ELECTRO 10UF 35WV		
C168			CE04KW1A101M	ELECTRO 100UF 10WV		
C169			CK45FF1H223Z	CERAMIC 0.022UF Z		
C170			CE04KW1A101M	ELECTRO 100UF 10WV		
C171			CK45FF1H223Z	CERAMIC 0.022UF Z		
C172			CE04EW0J222M	ELECTRO 2200UF 6.3WV		
C173			CK45FF1H223Z	CERAMIC 0.022UF Z		
C174,175			CC45FSL1H221J	CERAMIC 220PF J		
C176			CK45FF1H223Z	CERAMIC 0.022UF Z		
C177			CE04KW1V100M	ELECTRO 10UF 35WV		
C178			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C179			CE04KW1A101M	ELECTRO 100UF 10WV		
C180			CE04KW1V100M	ELECTRO 10UF 35WV		
C181			CE04KW1C101M	ELECTRO 100UF 16WV		
C182,183			CF92FV1H104J	MF 0.10UF J		
C184			CE04EW1E102M	ELECTRO 1000UF 25WV		
C185			CK45FF1H223Z	CERAMIC 0.022UF Z		
C186			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C187			CK45FF1H223Z	CERAMIC 0.022UF Z		
C188-190			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C191			CE04KW1C101M	ELECTRO 100UF 16WV		
C192,193			CF92FV1H104J	MF 0.10UF J		
C194		*	C90-3482-05	ELECTRO 2200UF 35WV		
C195			CK45FF1H223Z	CERAMIC 0.022UF Z		
C196,197			CE04KW1V100M	ELECTRO 10UF 35WV		
C198			CE04KW1J470M	ELECTRO 47UF 63WV		
C199,200			CE04KW1V330M	ELECTRO 33UF 35WV		
C201			CK45FF1H223Z	CERAMIC 0.022UF Z		
C202			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C203			CE04KW1C331M	ELECTRO 330UF 16WV		
C204,205			CC45FSL1H180J	CERAMIC 18PF J		
C206			CC45FSL1H560J	CERAMIC 56PF J		
C207			CE04KW1A101M	ELECTRO 100UF 10WV		
C208,209			CC45FSL2H100D	CERAMIC 10PF D		
C210			CE04KW1V100M	ELECTRO 10UF 35WV		
C211			CK45FF1H223Z	CERAMIC 0.022UF Z		
J1		*	E63-0071-05	PHONO JACK LINE IN/OUT		
J2			E11-0208-05	PHONE JACK PHONES		
J3			E11-0188-05	MINIATURE PHONE JACK SYNCHRO		
J6			J11-0098-05	WIRE CLAMPER		

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L1 ,2			L40-1035-29	SMALL FIXED INDUCTOR(10MH, J)		
L3 ,4			L39-0171-05	TRAP COIL		
L5 ,6		*	L32-0556-05	BIAS OSCILATING COIL		
L7 ,8		*	L79-1209-05	LC FILTER		
L9 ,10			L39-0126-05	TRAP COIL		
L20 ,21		*	L32-0554-05	BIAS OSCILATING COIL		
X1			L78-0294-05	RESONATOR 10.000MHz		
CP1			R90-0500-05	MULTI-COMP 100KX6 J 1/4W		
R163,164			RD14NB2E271J	RD 270 J 1/4W		
R165,166			RD14NB2E102J	RD 1.0K J 1/4W		
R172			RD14NB2E100J	RD 10 J 1/4W		
R184			RD14NB2E100J	RD 10 J 1/4W		
VR1 -4			R12-0605-05	TRIMMING POT.(220)		
VR5 -8			R12-3686-05	TRIMMING POT.(22K)		
VR11-14			R12-1619-05	TRIMMING POT.(4.7K)		
VR50			R12-3685-05	TRIMMING POT.(10K)		
VR51			R12-1619-05	TRIMMING POT.(4.7K)		
VR52			R12-3685-05	TRIMMING POT.(10K)		
VR53			R12-1619-05	TRIMMING POT.(4.7K)		
K1 ,2			S76-0018-05	MAGNETIC RELAY		
S1 -17			S40-1064-05	PUSH SWITCH		
S18 -20			S31-1036-05	SLIDE SWITCH		
S22 -27			S40-1064-05	PUSH SWITCH		
S30			S31-2131-05	SLIDE SWITCH (POWER TYPE)	YM	
S21		*	T99-0531-05	SPEED DETECTOR		
D1 -29			HSS104	DIODE		
D1 -29			1SS133	DIODE		
D30 -35			RB721Q	DIODE		
D37 -45			HSS104	DIODE		
D37 -45			1SS133	DIODE		
D46			RB721Q	DIODE		
D47			HZS3.9N(B2)	ZENER DIODE		
D47			RD3.9ES(B2)	ZENER DIODE		
D51			HZS6.2N(B2)	ZENER DIODE		
D51			RD6.2ES(B2)	ZENER DIODE		
D52 -59			HSS104	DIODE		
D52 -59			1SS133	DIODE		
D60			KBP02ML-6127	DIODE		
D61 -63			HSS104	DIODE		
D61 -63			1SS133	DIODE		
D64			HZS3.9N(B2)	ZENER DIODE		
D64			RD3.9ES(B2)	ZENER DIODE		
D65			HZS24N(B)	ZENER DIODE		
D65			RD24ES(B)	ZENER DIODE		
D66			HZS3.9N(B2)	ZENER DIODE		
D66			RD3.9ES(B2)	ZENER DIODE		
D67 -69			HSS104	DIODE		
D67 -69			1SS133	DIODE		
D70			S5688B	DIODE		
D70			1SR139-100	DIODE		
D71			HSS104	DIODE		
D71			1SS133	DIODE		
D72			S5688B	DIODE		

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D72			1SR139-100	DI0DE		
D73			RB721Q	DI0DE		
D74 -78			HSS104	DI0DE		
D74 -78			1SS133	DI0DE		
D79			S5688B	DI0DE		
D79			1SR139-100	DI0DE		
D80			HSS104	DI0DE		
D80			1SS133	DI0DE		
D81			S5688B	DI0DE		
D81			1SR139-100	DI0DE		
D82			RB721Q	DI0DE		
D83 -88			HSS104	DI0DE		
D83 -88			1SS133	DI0DE		
D89			D3SBA20F03	DI0DE		
D89			RBV-402LFA	DI0DE		
D91 -96			HSS104	DI0DE		
D91 -96			1SS133	DI0DE		
D97			HSS104	DI0DE		
D97			1SS133	DI0DE		
ED1		*	BJ128GK	INDICAT0R TUBE		
IC1		*	CXP82324-126Q	IC(8BIT MICR0PR0CESS0R)		
IC2 ,3			TA8125S	IC(2CH PRE AMP)		
IC4			XRU4052B	IC(MULTIPLEXER/DEMULTIPLEXER)		
IC5			UPC1297CA	IC(D0L HX PR0 SYSTEM)		
IC6			PST529D	IC(SYSTEM RESET)		
IC7			XRA17812T	IC		
IC8			XRA17815T	IC		
IC9		*	HA12157NTA	IC		
IC10			NJM4565D-D	IC(0P AMP X2)		
IC10			XRA15218-DX	IC(0P AMP X2)		
Q1 -4			2SD1302(S,T)	TRANSISTOR		
Q5 ,6			2SC1845(F,E)	TRANSISTOR		
Q7 ,8			DTC124ES	DIGITAL TRANSISTOR		
Q7 ,8			UN4212	DIGITAL TRANSISTOR		
Q9 -16			2SC1845(F,E)	TRANSISTOR		
Q17 ,18			2SC1740S(Q,R)	TRANSISTOR		
Q17 ,18			2SC3311A(Q,R)	TRANSISTOR		
Q19 ,20			2SD1302(S,T)	TRANSISTOR		
Q21 -24			DTC124ES	DIGITAL TRANSISTOR		
Q21 -24			UN4212	DIGITAL TRANSISTOR		
Q25 ,26			2SC1740S(Q,R)	TRANSISTOR		
Q25 ,26			2SC3311A(Q,R)	TRANSISTOR		
Q27 -32			DTC124ES	DIGITAL TRANSISTOR		
Q27 -32			UN4212	DIGITAL TRANSISTOR		
Q50			DTA124ES	DIGITAL TRANSISTOR		
Q50			UN4112	DIGITAL TRANSISTOR		
Q51 -53			DTC124ES	DIGITAL TRANSISTOR		
Q51 -53			UN4212	DIGITAL TRANSISTOR		
Q54 ,55			2SC1740S(Q,R)	TRANSISTOR		
Q54 ,55			2SC3311A(Q,R)	TRANSISTOR		
Q56			2SC3940A(R,S)	TRANSISTOR		
Q57			DTC143TS	DIGITAL TRANSISTOR		
Q57			UN4216	DIGITAL TRANSISTOR		
Q58			DTA124ES	DIGITAL TRANSISTOR		
Q58			UN4112	DIGITAL TRANSISTOR		

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Q59 ,60			DTC124ES	DIGITAL TRANSISTOR		
Q59 ,60			UN4212	DIGITAL TRANSISTOR		
Q61			2SD1302(S,T)	TRANSISTOR		
Q62 ,63			2SC1740S(Q,R)	TRANSISTOR		
Q62 ,63			2SC3311A(Q,R)	TRANSISTOR		
Q64			2SC3940A(R,S)	TRANSISTOR		
Q65 ,66			DTC124ES	DIGITAL TRANSISTOR		
Q65 ,66			UN4212	DIGITAL TRANSISTOR		
Q68			2SC1740S(Q,R)	TRANSISTOR		
Q68			2SC3311A(Q,R)	TRANSISTOR		
Q69			2SC3940A(R,S)	TRANSISTOR		
Q70			2SC1740S(Q,R)	TRANSISTOR		
Q70			2SC3311A(Q,R)	TRANSISTOR		
Q71			2SA1123(R,S)	TRANSISTOR		
Q72 ,73			DTC124ES	DIGITAL TRANSISTOR		
Q72 ,73			UN4212	DIGITAL TRANSISTOR		
Q74 ,75			2SA1534A(R,S)	TRANSISTOR		
Q76			2SA1309A(Q,R)	TRANSISTOR		
Q76			2SA933S(Q,R)	TRANSISTOR		
Q77 -79			DTC124ES	DIGITAL TRANSISTOR		
Q77 -79			UN4212	DIGITAL TRANSISTOR		
Q80 ,81			2SA1534A(R,S)	TRANSISTOR		
Q82			2SA1309A(Q,R)	TRANSISTOR		
Q82			2SA933S(Q,R)	TRANSISTOR		
Q83			DTC124ES	DIGITAL TRANSISTOR		
Q83			UN4212	DIGITAL TRANSISTOR		
Q84			DTA124ES	DIGITAL TRANSISTOR		
Q84			UN4112	DIGITAL TRANSISTOR		
Q85 ,86			DTC124ES	DIGITAL TRANSISTOR		
Q85 ,86			UN4212	DIGITAL TRANSISTOR		
Q87			2SA992(F,E)	TRANSISTOR		
Q88			DTC124ES	DIGITAL TRANSISTOR		
Q88			UN4212	DIGITAL TRANSISTOR		
Q89			2SA992(F,E)	TRANSISTOR		
Q90 ,91			DTC124ES	DIGITAL TRANSISTOR		
Q90 ,91			UN4212	DIGITAL TRANSISTOR		
Q92			DTC143TS	DIGITAL TRANSISTOR		
Q92			UN4216	DIGITAL TRANSISTOR		
MECHANISM ASSY (D40-126X-XX)				A DECK 7-05 : K, P, Y, M, X 9-05 : T, E B DECK 8-05 : K, P, Y, M, X 0-05 : T,E		
301	2A	*	A10-3053-08	HEAD BASE CHASSIS CALKED ASSY		
302	2B	*	A10-3054-08	MAIN CHASSIS CALKED ASSY		
303	2A	*	A15-0083-08	HEAD FLAME		
305	2A	*	B09-0243-08	REEL CAP		
306	1B	*	D01-0154-08	FLYWHEEL ASSY L	KPYMX	
306	1B	*	D01-0156-08	FLYWHEEL ASSY L	TE	
307	2C	*	D01-0155-08	FLYWHEEL ASSY R	KPYMX	
307	2C	*	D01-0157-08	FLYWHEEL ASSY R	TE	
309	1B	*	D03-0401-08	REEL DESK ASSY(REVERSE)		
310	2B	*	D03-0402-08	REEL DESK ASSY(FORWARD)		
312	2A	*	D10-3394-08	HEAD LEVER		
313	2A	*	D10-3395-08	ASSIST ARM ASSY		
314	2A,2B	*	D10-3396-08	EJECT LOCK LEVER		
315	1A	*	D10-3397-08	PLAY ARM L		
316	2B	*	D10-3398-08	PLAY ARM R		

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317	1B	*	D10-3399-08	REVERSE ARM		
318	1B	*	D10-3400-08	FR ARM		
319	2B	*	D10-3401-08	BRAKE ARM		
320	2B	*	D10-3402-08	TRIGER ARM		
321	1B	*	D10-3403-08	EJECT ARM		B
321	2C	*	D10-3404-08	EJECT ARM		A
324	2A	*	D13-1551-08	HEAD ARM GEAR		
325	2B	*	D13-1552-08	PLAY GEAR		
326	1B	*	D13-1553-08	FERST FORWARD GEAR		
327	2C	*	D13-1554-08	CAM GEAR		
330	1B	*	D15-0352-08	FR PULLEY ASSY		
333	2B	*	D23-0297-08	BEARING METAL A		
334	1C	*	D23-0298-08	BEARING METAL B		
335	1C	*	D23-0299-08	BEARING METAL D		
336	2B	*	D23-0300-08	BEARING METAL C		
340	1C		E31-7731-08	MOTOR WIRE		
341	1B	*	E35-0643-08	SOLENOID CONNECTING WIRE		
342	1B	*	E35-0644-08	MECHA CONTROL CONNECTING WIRE		B
342	1B	*	E35-0645-08	MECHA CONTROL CONNECTING WIRE		A
344	2C	*	E40-4688-08	HOLDER		
346	2A	*	G01-3587-08	HEAD FLAME SPRING		
347	2A	*	G01-3588-08	HEAD LEVER SPRING		
348	2A	*	G01-3589-08	HEAD CHASSIS SPRING		
349	2A	*	G01-3590-08	REEL SPRING L		
350	2A	*	G01-3591-08	PINCH ROLLER SPRING L		
351	2A	*	G01-3592-08	PINCH ROLLER SPRING L		
352	2A	*	G01-3593-08	TORSION COIL SPRING		
353	2B	*	G01-3594-08	REEL SPRING R		
354	2B	*	G01-3595-08	PINCH ROLLER SPRING R		
355	2B	*	G01-3596-08	PINCH ROLLER SPRING R		
356	1B	*	G01-3597-08	REVERS ARM SPRING		
357	2B	*	G01-3598-08	FLYWHEEL SPRING L		
358	2B	*	G01-3599-08	FLYWHEEL SPRING R		
359	1B	*	G01-3600-08	EJECT LEVER SPRING		B
359	2C	*	G01-3601-08	EJECT LEVER SPRING		A
362	2A	*	G02-1027-08	AZIMUTH SPRING		
363	1A	*	G02-1028-08	CASSETTE SPRING		
365	2A	*	J19-3592-08	HEAD HOLDER ASSY		
366	1B	*	J19-3593-08	LEAD HOLDER		
368	1C	*	J21-6020-08	FW BRACKET		
370	1B,2C	*	J31-0861-08	EJECT COLLER		
372	1C	*	J39-0178-08	SPACER		
374	1B	*	J70-0442-08	PRINTED WIRING BOARD		
375	2C	*	J70-0443-08	PRINTED WIRING BOARD		
378	2A	*	N09-3011-08	SCREW		
379	2A	*	N09-3012-08	SCREW		
380	2A	*	N09-3013-08	SCREW		
381	1A,2C		N09-2789-08	SCREW		
382	1C	*	N09-3015-08	SCREW		
383	1C	*	N09-3016-08	SCREW		
384	1C	*	N09-3017-08	SCREW		
385	1B,2C	*	N09-3018-08	SCREW		
386	1A,	*	N09-3019-08	HEAD SCREW		
388	1B	*	N19-1334-08	WASHER		
389	2B,1C	*	N19-1335-08	WASHER		

L:Scandinavia **K**:USA **P**:Canada
Y:PX(Far East, Hawaii) **T**:England **E**:Europe
Y:AAFES(Europe) **X**:Australia **M**:Other Areas

A : A DECK
B : B DECK

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
390	1A	*	N19-1338-08	HEAD WASHER		
391	1B	*	S74-0020-08	LEAF SWITCH		
393	1B	*	S90-0115-08	MODE SWITCH		
395	1B	*	T94-0231-08	SOLENOID ASSY		
396	1C	*	T95-0129-08	HALL IC		
BM	1C	*	D16-0350-08	MAIN BELT	KPYMX	
BM	1C	*	D16-0351-08	MAIN BELT	TE	
BR	1B	*	D16-0349-08	REEL BELT		
PF	2B	*	D14-0350-08	PINCH ROLLER ASSY		
PR	2A	*	D14-0349-08	PINCH ROLLER ASSY		
MM	1C	*	T42-0639-08	DC MOTOR ASSY	KPYMX	
MM	1C	*	T42-0640-08	DC MOTOR ASSY	TE	
PH	2A		T31-0066-08	PLAY HEAD		A
RPEH	2A		T39-0020-08	RECODE/PLAY/ERASE HEAD		B

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KX-W6050

SPECIFICATIONS

Track System	**4 track, 2 channel stereo**
Recording System	**AC bias (Frequency: 105 kHz)**
Heads	**A DECK**
	Playback/recording heads 1
	Erasing head 1
	B DECK
	Playback/recording heads 1
	Erasing head 1
Motors	**A DECK ..... DC motor × 1**
	B DECK ..... DC motor × 1
Wow and Flutter	**±0.18% (IEC)**
	±0.3% (DIN)
	0.09% (W.RMS)
Fast Winding Time	**Approx. 115 seconds (C-60 tape)**
Frequency Response	
Normal Tape	**25 Hz to 16,000 Hz, ±3 dB**
CrO_2 Tape	**25 Hz to 17,000 Hz, ±3 dB**
Metal Tape	**25 Hz to 18,000 Hz, ±3 dB**
Signal to Noise Ratio	
Dolby NR OFF	**52 dB**
(IEC, 250 nWb/m, Metal tape)	
Dolby NR OFF	**59 dB**
Dolby B NR ON	**68 dB**
Dolby C NR ON	**74 dB**
(3rd, H.D., 3%, Metal tape)	
Harmonic Distortion	**Less than 3.0%**
(at 315 Hz, 3rd H.D., 250 nWb/m, Metal tape)	
Input sensitivity/Impedance	
LINE IN	**122.8 mV/47 kΩ**
Output Level/Impedance	
LINE OUT	**775 mV/0.9 kΩ**
Headphones	**3 mW/32 Ω**

[General]	
Power Consumption	**25 W**
Dimensions	**W: 440 mm (17-5/16")**
	H: 137 mm (5-3/8")
	D: 269 mm (10-9/16")
Weight (Net)	**4.7 kg (10.3 lb)**

Note:
KENWOOD follows a policy of continuous advancements in development. For this reason specification may be changed without notice.

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Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.
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Dolby-Rauschunterdrückung mit Lizenz der Dolby Laboratories gefertigt.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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